STATE OF CALIFORNIA
The Resources Agency

Department of Water Resources

BULLETIN No. 130-68

HYDROLOGIC DATA: 1968

VOLUME III: CENTRAL COASTAL AREA

AUGUST 1970

NORMAN B. LIVERMORE, JR.
Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
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BULLETIN No. 130

HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES

Each Volume Contains

Appendix A: Climatological Data
Appendix B: Surface Water Measurements
Appendix C: Ground Water Measurements
Appendix D: Surface Water Quality
Appendix E: Ground Water Quality

FOREWORD

The data collection programs of the Department of Water Resources have been designed to supplement the activities of other agencies to satisfy specific needs of the State. Bulletin No. 130-68 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map to the left.

William R. Gianelli

William R. Gianelli, Director
Department of Water Resources
The Resources Agency
State of California
June 15, 1970

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT
1 Inch (in)	2.54 Centimeters
1 Foot (ft)	0.3048 Meters
1 Mile (mi)	1.609 Kilometers
1 Acre	0.405 Hectares
1 Square mile (sq.mi.)	2.590 Square kilometers
1 U. S. gallon (gal)	3.785 Liters
1 Acre-foot (ac.ft.)	1,233.5 Cubic meters
1 U. S. gallon per minute (gpm)	0.0631 Liters per second
1 Cubic foot per second (cfs)	1.7 Cubic meters per minute
1 Part per million (ppm)	1 Milligram per liter (mg/l)
1 Part per billion (ppb)	1 Microgram per liter (ug/l)
1 Part per trillion (ppt)	1 Nanogram per liter (ng/l)
1 Equivalent per million (epm)	1 Milliequivalent per liter (me/l)
Degrees Fahrenheit (°F)	5/9 (°F-32) Degrees Centigrade (°C)

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ACKNOWLEDGMENTS

In the preparation of this report, valuable assistance and contributions were received from many public and private agencies. This cooperation is gratefully acknowledged. Special mention is made of the following agencies:

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U. S. Coast Guard
U. S. Geological Survey
U. S. Soil Conservation Service
U. S. Weather Bureau

State

Department of Public Health
Department of Veterans Affairs
Division of Highways
Division of Forestry
University of California,
Agricultural Extension Service
North Coastal Water Quality
Control Board
San Francisco Bay Regional Water
Quality Control Board
Central Coastal Regional Water
Quality Control Board
State Water Resources Control Board

Local

Alameda County Flood Control and
Water Conservation District
Alameda County Water District
Marin County
Mendocino County
Monterey County Flood Control and
Water Conservation District
Napa County
San Benito County
San Luis Obispo County Flood Control
and Water Conservation District
Santa Clara County Flood Control and
Water District
Santa Clara Valley Water Conservation
District
Santa Cruz County, Department of Public
Works
Solano Irrigation District
Sonoma County Flood Control and Water
Conservation District
South Santa Clara Valley Water
Conservation District

State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES

RONALD REAGAN, Governor, State of California
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Reviewed and coordinated by
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Program Formulation and Coordination Office
Water Resources Evaluation Section

ABSTRACT

Report contains tables showing data on climate, surface water flow, ground water levels, surface and ground water quality, and waste water in the Central Coastal Area for the 1967-68 water year. Figures show the location of climatological observation stations and ground water basins; the average depth to water in wells; the location of surface water measurement and surface water quality stations; the daily mean specific conductance of Alameda Creek near Niles; the location of waste dischargers; and major drainage and hydrographic unit boundaries.

Appendix A

CLIMATOLOGICAL DATA

INTRODUCTION

This appendix summarizes monthly precipitation, temperature, wind movement, and evaporation data for the Central Coastal Area from July 1, 1967, to September 30, 1968. Eighteen cooperating agencies and 24 local observers supplied the data. Detailed daily and hourly data not published here are available in the files of the Department of Water Resources.

To insure accuracy, stations are inspected regularly to see that the equipment is properly maintained and that the observations generally are taken in accordance with U. S. Weather Bureau standards.

Each station in this appendix has been assigned an identification number. The letter and first digit denote the drainage basin as shown below. The remaining digits denote the sequence of the station in alphabetical order.

Central Coastal Area

D0 Santa Cruz Coast
D1 Pajaro-San Benito Rivers
D2 Lower Salinas River
D3 Upper Salinas River
D4 Monterey Coast

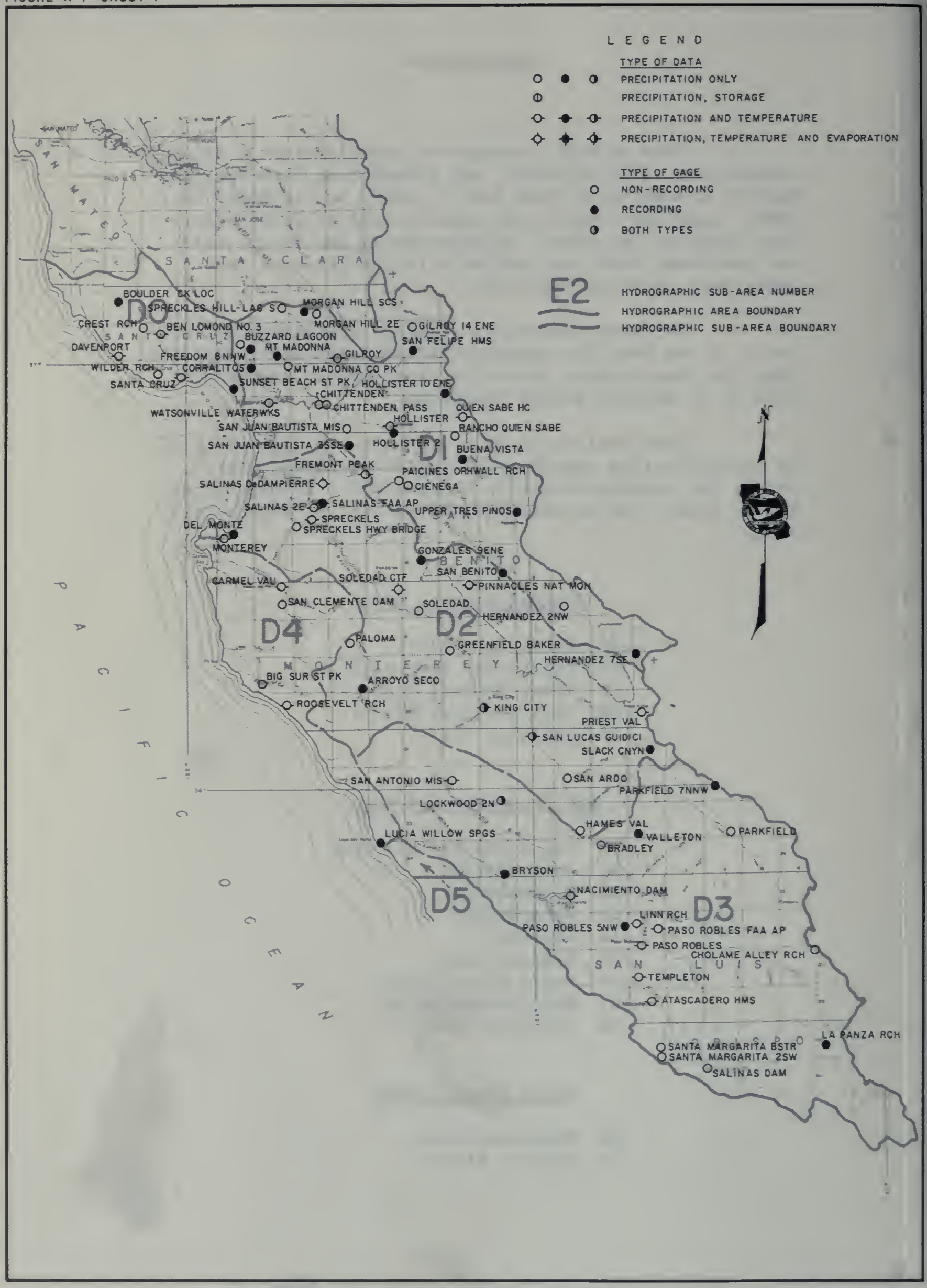
San Francisco Bay Area

E0 San Francisco Bay Area
E1 Coast-Marin
E2 Marin-Sonoma
E3 Napa-Solano
E4 East Bay
E5 Alameda Creek
E6 Santa Clara Valley
E7 Bayside-San Mateo
E8 Coast-San Mateo

North Coastal Area

F8 Mendocino Coast
F9 Russian River

FIGURE A-1 SHEET 1



CLIMATOLOGICAL OBSERVATION STATIONS 1967-68

CLIMATOLOGICAL OBSERVATION STATIONS 1967-68

FIGURE A-1 SHEET 3

CLIMATOLOGICAL OBSERVATION STATIONS 1967-68

TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS FOR 1967-68

An explanation of the column headings and the code symbols used in connection with the climatological station listing follows:

40-Acre Tract - This denotes the location of the station within the section in which it is located. The letter code is derived from the diagram to the right.

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian - The code for this column is as follows:

M - Mount Diablo Base and Meridian

Cooperator Number - This number is assigned from the following list:

000 Private Cooperator
403 Sonoma County Flood Control and Water Conservation District
407 San Benito County
411 Marin County
413 Marin Municipal Water District
414 Santa Clara Valley Water Conservation District
418 Vallejo Water Department
426 Santa Clara County Flood Control and Water District
801 Pomology Department, University of California, Davis
804 California Department of Beaches and Parks
806 California Department of Water Resources
808 California Division of Forestry
809 California Division of Highways
900 U. S. Weather Bureau
901 U. S. Corps of Engineers, San Francisco District
907 State Climatologist (unpublished U. S. Weather Bureau)
909 U. S. Soil Conservation Service

Cooperator's Index Number - This is the number assigned to the station by the agency responsible for or handling the records of the station. The U. S. Weather Bureau number is only shown in this column when it differs from the alpha order number.

County - This is a standard code for California counties and adjacent areas as shown below:

Alameda	60	San Francisco	80
Contra Costa	07	San Luis Obispo	40
Marin	21	San Mateo	41
Mendocino	23	Santa Clara	43
Monterey	27	Santa Cruz	44
Napa	28	Solano	48
San Benito	35	Sonoma	49

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS FOR 1967-68

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude ° ' "	Longitude ° ' "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
E6 0053	ALAMITOS PERCOLATION POND	185					M	37 15 18	121 52 18	414		1959			43
E4 0064	ALAMO 1 N	410	SEC 12	T01S	R02W		M	37 52 00	122 02 00	900		1957			07
E6 0125	ALMADEN RESERVOIR	640	SEC 11	T09S	R01E	E	M	37 10 00	121 50 00	414		1936			43
F9 0135	ALPINE DAM	680		T01N	R07W		M	37 56 30	122 38 18	413		1925			21
E3 0212	ANGWIN P U C	1815	SEC 05	T08N	R05W	K	M	38 34 17	122 26 05	900		1939			28
D2 0322	ARROYO SECO	800	SEC 36	T19S	R04E		M	36 14 00	121 29 00	900		1931			27
D3 0360-01	ATASCADERO MAINT STATION	940	SEC 26	T28S	R12E	R	M	35 27 30	120 38 24	809	L145	1948			40
E3 0372	ATLAS ROAD	1660	SEC 25	T07N	R04W	G	M	38 25 36	122 14 53	900		1940			28
D0 0677	BEN LOMOND #3	720	SEC 10	T10S	R01W		M	37 05 00	122 04 00	900		1967			44
E4 0693	BERKELEY	299		T01S	R03W		M	37 52 00	122 15 00	900		1887			60
D4 0790	BIG SUR STATE PARK	235	SEC 30	T19S	R02E		M	36 15 00	121 47 00	900		1914			27
E6 0850	BLACK MOUNTAIN 2 SW	2331	SEC 36	T07S	R03W		M	37 18 00	122 10 00	900		1943			43
F9 0876	BLAKES LANDING	40	SEC 13	T04N	R01W		M	38 11 42	122 55 00	000		1956			21
F9 0969	BON TEMPE DAM	723	SEC 11	T01N	R07W		M	37 57 24	122 36 36	413		1958			21
F8 0973	BOONVILLE H M S	342	SEC 02	T13N	R14W	F	M	39 00 54	123 22 20	900	PN0971	1936			23
D0 1005	BOULDER CREEK LOCATELLI RCH	2175	SEC 16	T09S	R03W	Q	M	37 08 32	122 11 43	900		1943			44
D3 1034	BRADLEY	540	SEC 08	T24S	R11E		M	35 52 00	120 48 00	900		1946			27
D3 1142	BRYSON	925	SEC 34	T24S	R08E		M	35 48 00	121 05 00	900		1946			27
D1 1170	BUENA VISTA	1640	SEC 27	T13S	R07E	R	M	36 46 00	121 11 00	900		1932			35
E7 1206	BURLINGAME	10		T04S	R05W		M	37 35 00	122 21 00	900		1946			41
E4 1216	BURTON RANCH	530	SEC 09	T01S	R02W		M	37 52 00	122 05 00	900		1955			07
D1 1247	BUZZARD LAGOON	1275	SEC 26	T10S	R01E	M	M	37 02 00	121 50 00	000		1959			44
E5 1281	CALAVERAS RESERVOIR	805	SEC 24	T05S	R01E		M	37 29 12	121 49 06	900		1874			60
E6 1285	CALERO RESERVOIR	500	SEC 04	T09S	R02E	E	M	37 10 48	121 45 48	414		1958			43
E3 1312	CALISTOGA	364	SEC 36	T09N	R07W	K	M	38 35 05	122 34 59	900		1873			28
E6 1341-10	CAMBRIAN PARK						M	37 15 12	121 55 24	426					43
E6 1377-01	CAMPBELL WATER COMPANY	192	SEC 35	T01S	R01W	C	M	37 17 00	121 57 00	000		1897		09	43
D4 1534	CARMEL VALLEY	425	SEC 03	T17S	R02E		M	36 29 00	121 44 00	900		1957			27
E3 1537	CARNEROS VALLEY	300	SEC 13	T05N	R05W		M	38 17 00	121 21 30	901		1931			28
F9 1602	CAZADERO	1040	SEC 13	T08N	R12W	R	M	38 31 48	123 07 31	900		1939			49
D1 1739	CHITTENDEN PASS	125	SEC 12	T12S	R03E		M	36 54 00	121 36 00	900		1945			44
D1 1739-01	CHITTENDEN	104	SEC 11	T12S	R03E	K	M	36 54 08	121 36 17	909		1960			44
D3 1743	CHOLAME ALLEY RANCH	1975	SEC 12	T26S	R16E		M	35 41 00	120 12 00	900		1925			40
D1 1766	CIENEGA	900	SEC 18	T14S	R06E	B	M	36 42 54	121 20 48	407		1950			35
F9 1838	CLOVERDALE 3 SSE	320	SEC 29	T11N	R01W		M	38 46 00	122 59 00	900		1950			49
F9 1840	CLOVERDALE 11 W	1820	SEC 17	T11N	R12W		M	38 46 00	123 13 00	900		1939			49
E3 1919	COLLINSVILLE	34	SEC 22	T03N	R01E	F	M	38 05 26	121 51 17	000		1946			48
E4 1962	CONCORD 3 E	200		T01N	R01W		M	37 58 00	121 59 00	900		1954			07
D0 2048	CORRALITOS	260	SEC 12	T11S	R01E		M	36 59 00	121 48 00	900		1958			44
F9 2105	COYOTE DAM	720	SEC 34	T16N	R12W		M	39 11 00	123 11 00	901		1960			23
E6 2109	COYOTE RESERVOIR	800	SEC 09	T10S	R04E	C	M	37 05 06	121 32 24	414		1938			43
D0 2159	CREST RANCH	2640		T10S	R02W		M	37 05 06	122 08 00	000		1948			44
E4 2177	CROCKETT	12	SEC 32	T03N	R03W		M	38 02 00	122 13 00	900		1918			07
D0 2290	DAVENPORT	273	SEC 32	T10S	R03W	Q	M	37 01 00	122 12 00	900		1910			44
D2 2362	DEL MONTE	46		T15S	R01E		M	36 36 00	121 52 00	900		1911			27
E3 2399-48	DENVERTON 1 S	22	SEC 08	T04N	R01E	F	M	38 12 23	121 53 28	000		1950			48
E3 2580	DUTTONS LANDING	20	SEC 09	T04N	R04W	R	M	38 12 07	122 18 11	900		1955			28
E3 2933	FAIRFIELD	13	SEC 25	T05N	R02W	M	M	38 15 01	122 02 25	900		1940			48
E3 2934	FAIRFIELD FIRE STATION	34	SEC 24	T05N	R02W	N	M	38 15 36	122 02 26	900		1951			48
F8 3161	FORT BRAGG	80	SEC 06	T18N	R17W	N	M	39 26 45	123 48 24	900		1895			23
F8 3164	FORT BRAGG AVIATION	74	SEC 25	T18N	R18W	K	M	39 23 34	123 48 51	900		1940			23
F8 3191	FORT ROSS	116	SEC 30	T08N	R12W	D	M	38 31 00	123 15 00	900		1874			49
D1 3232	FREEDOM 8 NNW	1495	SEC 24	T10S	R01E		M	37 03 00	121 49 00	900		1952			44
D1 3238	FREMONT PEAK	2500	SEC 35	T13S	R04E		M	36 45 36	121 29 54	000		1950			35
E5 3387	GERBER RANCH	2140	SEC 36	T06S	R04E	P	M	37 22 00	121 29 12	900		1912			43
F9 3395-07	GEYSERVILLE HOCKING	200	SEC 18	T10N	R09W	J	M	38 43 00	122 53 30	806		1965			49
D1 3417	GILROY	194	SEC 06	T11S	R04E		M	37 00 00	121 34 00	900		1957			43
D1 3419	GILROY 8 NE	1050	SEC 29	T10S	R05E		M	37 02 00	121 27 00	900		1942			43
D1 3422	GILROY 14 ENE	1350	SEC 05	T10S	R06E		M	37 06 00	121 20 00	900		1940			43
D2 3502	GONZALES 9 ENE	2350	SEC 15	T16S	R06E		M	36 33 00	121 18 00	900		1943			35
F9 3577	GRATON	200	SEC 21	T07N	R09W	P	M	38 25 51	122 51 49	000		1928			49
F9 3578	GRATON 1 W	210		T07N	R09W		M	38 26 00	122 53 00	900		1896	1968		49
D2 3591	GREENFIELD BAKER	280		T18S	R07E		M	36 19 24	121 14 36	901		1958			27
E3 3612-01	GREEN VALLEY	414	SEC 03	T05N	R03W		M	38 17 00	122 10 00	418		1893		18	48
E6 3681	GUADALUPE RESERVOIR	450	SEC 29	T08S	R01E	Q	M	37 12 00	121 53 00	414		1936			43
F9 3683	GUERNEVILLE	145	SEC 29	T08N	R10W	P	M	38 30 15	122 59 40	900		1939			49
E8 3714	HALF MOON BAY	60	SEC 29	T05S	R05W	P	M	37 27 41	122 26 01	900		1965			41
D3 3722	HAMES VALLEY	725	SEC 32	T23S	R10E		M			000		1963			27
E4 3863	HAYWARD 6 ESE	715	SEC 21	T03S	R01W	N	M	37 39 08	121 59 09	900		1940			60
F9 3875	HEALDSBURG	101	SEC 19	T09N	R09W		M	38 37 00	122 50 00	900		1877			49

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS FOR 1967-68

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude (° ' ")	Longitude (° ' ")	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
F9 3878	HEALDSBURG 2 E	102		T09N	R09W		M	38 37	122 50 00	900		1943			49
D1 3925	HERNANDEZ 2 NW	2160	SEC 29	T17S	R10E		M	36 25 00	120 55 00	900		1940			35
D1 3928	HERNANDEZ 7 SE	2765	SEC 06	T19S	R12E		M	36 18 00	120 42 00	900		1940			35
D1 4022	HOLLISTER 1 SW	279		T13S	R05E		M	36 50 00	121 25 00	900		1874			35
D1 4025	HOLLISTER 2	284	SEC 10	T12S	R05E		M	36 51 00	121 24 00	900		1938			35
D1 4035	HOLLISTER 10 ENE	2578	SEC 08	T12S	R07E		M	36 55 00	121 14 00	900		1962			35
F9 4100	HOPLAND LARGO STATION	550		T13N	R12W		M	39 01 00	123 07 00	900		1948			23
F9 4277	INVERNESS MERY	150		T03N	R09W		M	38 05 24	122 51 06	000		1951	1968		21
F9 4480	KELLOGG	1800	SEC 09	T09N	R07W		M	38 40 00	122 40 00	900		1936			49
E2 4500	KENTFIELD	80	SEC 08	T01N	R06W	Q	M	37 56 47	122 33 02	900		1888			21
F9 4502	KENT LAKE	360		T02N	R08W		M	37 59 54	122 42 30	413		1954			21
D2 4555	KING CITY	320	SEC 08	T20S	R08E		M	36 12 00	121 08 00	900		1887			27
F9 4593	KNIGHTS VALLEY	480	SEC 18	T09N	R07W		M	38 37 00	122 40 00	900		1964			49
E4 4633	LAFAYETTE 2 NNE	540		T01N	R02W		M	37 55 00	122 06 00	900		1956			07
F9 4652	LAGUNITAS LAKE	785		T01N	R07W		M	37 56 48	122 35 42	413		1881			21
E8 4660	LA HONDA	670	SEC 14	T07S	R04W		M	37 19 00	122 16 00	900		1950			41
E3 4677	LAKE CURRY	386	SEC 19	T06N	R02W		M	38 21 18	122 07 18	418		1926		09	28
D3 4767	LA PANZA RANCH	1550	SEC 20	T29S	R17E		M	35 23 00	120 10 00	900		1948			40
E6 4916	LEROY ANDERSON DAM	700	SEC 10	T09S	R03E	K	M	37 09 48	121 37 48	414		1950			43
E6 4922	LEXINGTON RESERVOIR	700	SEC 05	T09S	R01W	J	M	37 10 36	121 59 18	414		1951			43
D3 4963	LINN RANCH	870	SEC 07	T26S	R12E	F	M	35 41 06	120 43 24	000		1925	1968		40
E5 4997	LIVERMORE SEWAGE PLANT	405	SEC 12	T03S	R01E	A	M	37 41 28	121 48 20	000		1961			60
E5 4996	LIVERMORE 2 SSW	545	SEC 20	T03S	R02E		M	37 39 00	121 47 00	900		1871	1967		60
D3 5017	LOCKWOOD 2 N	1104	SEC 34	T22S	R08E		M	35 58 00	121 05 00	900		1940			27
E6 5123	LOS GATOS	428		T08S	R01W		M	37 13 00	121 59 00	900		1885			43
E6 5123-04	LOS GATOS WRIGHT	1610	SEC 26	T09S	R01W	H	M	37 07 24	121 56 00	000		1947	1968		43
D0 5125	LOS GATOS 4 SW	2215	SEC 01	T09S	R02W		M	37 11 00	122 02 00	900		1957			43
D4 5184	LUCIA WILLOW SPRINGS	360	SEC 05	T24S	R05E		M	35 53 00	121 27 00	900		1941			27
E3 5333	MARE ISLAND NAVY	52		T03N	R03W		M	38 06 00	122 16 12	900		1867			48
E4 5371	MARTINEZ 3 S	225		T02N	R02W		M	37 58 00	122 08 00	900		1941			07
E4 5372	MARTINEZ 3 SSE	280		T02N	R02W		M	37 58 00	122 06 00	900		1956			07
E4 5377	MARTINEZ FIRE STATION	26		T02N	R02W		M	38 01 00	122 08 00	900		1891			07
E2 5647	MILL VALLEY	10	SEC 31	T01N	R06W		M	37 53 48	122 31 36	411		1944			21
D4 5795	MONTEREY	335		T15S	R01E		M	36 36 00	121 54 00	900		1878			27
E6 5844	MORGAN HILL 2 E	225		T09S	R03E		M	37 08 00	121 37 00	900		1943			43
E6 5846	MORGAN HILL 6 WNW	660		T09S	R02E		M	37 09 00	121 46 00	900					43
D1 5853	MORGAN HILL S C S	350	SEC 20	T09S	R03E		M	37 08 00	121 39 00	900		1945			43
E4 5915	MOUNT DIABLO NORTH GATE	2070	SEC 02	T01S	R01W	R	M	37 52 07	121 56 05	900		1952			07
E5 5933	MOUNT HAMILTON	4206		T07S	R03E		M	37 20 00	121 39 00	900		1881			43
D1 5973	MOUNT MADONNA	1800	SEC 35	T10S	R02E		M	37 01 00	121 43 00	900		1945			44
D1 5973-11	MT MADONNA COUNTY PARK	1880	SEC 01	T11S	R02E	B	M	37 00 42	121 42 12	909		1937			43
F9 5996	MT TAMALPAIS 2 SW	1480		T01N	R07W		M	37 54 00	122 36 00	900		1959			21
E2 6027	MUIR WOODS	170					M	37 54 00	122 34 00	900		1940			21
D3 6056	NACIMIENTO DAM	770	SEC 15	T25S	R10E		M	35 46 00	120 53 00	900		1957			40
E3 6074	NAPA STATE HOSPITAL	73	SEC 14	T05N	R04W	J	M	38 16 40	122 15 50	900		1877			28
F9 6105	NAVARRO 1 NW	220	SEC 18	T15N	R15W		M	39 09 50	123 33 47	900		1958			23
E5 6144	NEWARK	14	SEC 01	T05S	R02W	Q	M	37 31 18	122 01 43	900		1891			60
F9 6187	NICASIO			T03N	R08W		M			413					21
E5 6199-10	NILES PINNA	75		T04S	R01W		M					1962			60
F9 6290	NOVATO 8 WNW	350	SEC 24	T04N	R08W		M	38 08 00	122 43 00	900		1943			21
E2 6290-02	NOVATO FIRE HOUSE	18		T03N	R06W		M	38 06 30	122 33 42	411		1957			21
E4 6332-01	OAKLAND 39TH AVENUE			T02S	R03W		M			907		1960			60
E4 6333	OAKLAND CITY HALL	40	SEC 35	T01S	R04W		M	37 48 00	122 16 00	900		1949			60
E4 6335	OAKLAND WB AP	3		T02S	R03W		M	37 44 00	122 12 00	900		1939			60
E3 6351	OAKVILLE 1 WNW	165	SEC 21	T07N	R05W	G	M	38 26 46	122 25 07	900		1906			28
E3 6356	OAKVILLE 4 SW NO. 2	1685	SEC 01	T06N	R06W	A	M	38 23 55	122 27 54	900		1963			28
F9 6370	OCCIDENTAL	960	SEC 34	T07N	R10W	D	M	38 24 46	122 57 43	900		1940			49
D1 6610	PAICINES OHRWALL RANCH	950	SEC 12	T14S	R05E		M	36 44 00	121 22 00	900		1924			35
E6 6646	PALO ALTO CITY HALL	43	SEC 01	T06S	R03W	B	M	37 26 43	122 08 22	900		1953			43
D2 6650	PALOMA	1835	SEC 23	T18S	R04E		M	36 21 00	121 30 00	900		1940			27
D3 6703	PARKFIELD	1482	SEC 35	T23S	R14E		M	35 53 00	120 26 00	900		1938			27
D3 6706	PARKFIELD 7 NNW	3590	SEC 21	T22S	R14E	N	M	36 59 46	120 28 26	900		1948			27
D3 6730	PASO ROBLES	700	SEC 33	T26S	R12E		M	35 38 00	120 41 00	900		1887			40
D3 6736	PASO ROBLES 5 NW	1040	SEC 11	T26S	R11E		M	35 41 00	120 45 00	900		1940			40
D3 6742	PASO ROBLES FAA AP	803	SEC 13	T26S	R12E		M	35 40 00	120 38 00	900		1944			40
E6 6791-43	PENITENCIA RAIN GAGE	255	SEC 23	T06S	R01E	L	M	37 24 00	121 49 54	426					43
E2 6826	PETALUMA FIRE STATION NO. 2	16	SEC 33	T05N	R07W	A	M	38 14 28	122 37 44	900		1871			49
E2 6826-01	PETALUMA BURNS	240	SEC 02	T04N	R08W		M	38 13 00	122 42 48	901		1959			49
F8 6851-01	PHILO 2 NW	240		T14N	R15W		M	39 05 30	123 28 30	000		1953			23
F8 6851-02	PHILO 4 NW	240	SEC 33	T15N	R15W		M	39 01 00	123 37 00	403					23

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS FOR 1967-68

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridion	Latitude O	Latitude I	Latitude II	Longitude O	Longitude I	Longitude II	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
F9 6853	PHOENIX LAKE DAM	175					M	37	57	18	122	34	24	413		1937			21
D2 6926	PINNACLES NATIONAL MONUMENT	1310	SEC 02	T17S	R07E		M	36	29	00	121	11	00	900		1937			35
E5 6991-05	PLEASANTON NURSERY	345	SEC 20	T03S	R01E		M	37	40	00	122	53	00	000		1939			60
F8 7009	POINT ARENA	122	SEC 12	T12N	R17W		M	38	55	00	123	42	00	900		1940			23
E4 7070	PORT CHICAGO N A D	50		T02N	R01W		M	38	01	00	122	01	00	900		1946			07
E8 7086	PORTOLA STATE PARK	422	SEC 08	T08S	R03W	Q	M	37	14	42	122	12	42	901		1959			41
F9 7108	POTTER VALLEY 3 SE	1100	SEC 27	T17N	R11W		M	39	18	00	123	04	00	900		1952			23
F9 7109	POTTER VALLEY POWERHOUSE	1014	SEC 06	T17N	R11W		M	39	22	00	123	08	00	900		1911			23
D2 7150	PRIEST VALLEY	2300	SEC 17	T20S	R12E		M	36	11	00	120	42	00	900		1898			27
D1 7190	QUIEN SABE HAY CAMP	1630	SEC 27	T12S	R07E	M	M	36	51	30	121	11	48	000		1949			35
D1 7249	RANCHO QUIEN SABE	1800	SEC 04	T13S	R07E	D	M	36	50	12	121	12	48	000		1931			35
E6 7339	REDWOOD CITY	31		T05S	R03W		M	37	29	00	122	14	00	900		1899			41
F9 7351	REDWOOD VALLEY	718	SEC 09	T16N	R12W		M	39	16	00	123	12	00	900		1937			23
E4 7414	RICHMOND	55					M	37	56	00	122	21	00	900		1950			07
D4 7539-01	ROOSEVELT RANCH	1100	SEC 24	T20S	R02E	F	M	36	10	48	121	41	48	000		1946			27
E3 7643	SAINT HELENA	225	SEC 31	T08N	R05W	C	M	38	30	25	122	27	40	900		1907			28
E3 7646	SAINT HELENA 4 WSW	1792	SEC 04	T07N	R06W		M	38	30	00	122	32	00	900		1939			21
E4 7661	SAINT MARYS COLLEGE	625	SEC 17	T01S	R02W		M	37	50	00	122	06	00	900		1942			07
D2 7668	SALINAS 2 E	80		T14S	R03E		M	36	40	00	121	37	00	900		1958			27
D2 7669	SALINAS FAA AP	80		T14S	R03E		M	36	40	00	121	36	00	900		1873			27
D3 7672	SALINAS DAM	1380	SEC 08	T30S	R14E		M	35	20	00	120	30	00	900		1942			40
E2 7707-01	SAN ANSELMO	100		T02N	R06W		M	37	58	36	122	33	42	411		1957			21
D3 7714	SAN ANTONIO MISSION	1060	SEC 18	T22S	R07E		M	36	01	00	121	15	00	900		1959			27
D2 7716	SAN ARDO	440	SEC 09	T22S	R10E		M	36	02	00	120	54	00	900		1894			27
D1 7719	SAN BENITO	1355	SEC 27	T16S	R08E	H	M	36	30	30	121	04	54	900		1936			35
D4 7731	SAN CLEMENTE DAM	600	SEC 23	T17S	R02E		M	36	26	12	121	42	30	900	NPGS18	1940			27
D1 7755	SAN FELIPE HIGHWAY STATION	365	SEC 32	T10S	R06E		M	37	01	00	121	20	00	900		1943			43
E8 7767	SAN FRANCISCO SUNSET	300		T02S	R06W		M	37	46	00	122	30	00	900		1948			80
E7 7769	SAN FRANCISCO WB AIRPORT	8		T04S	R05W		M	37	37	00	122	23	00	900		1928			41
E7 7772	SAN FRANCISCO F O B	52		T02S	R05W		M	37	47	00	122	25	00	900		1931			80
E8 7807	SAN GREGORIO 2 SE	245	SEC 23	T07S	R05W	Q	M	37	18	14	122	21	38	900		1964			41
E6 7821	SAN JOSE	70		R07S	R01E		M	37	21	00	121	54	00	900		1874			43
E6 7824-01	SAN JOSE DECID F F S	90	SEC 15	T07S	R01W	J	M	37	19	00	121	57	00	801		1935			43
D1 7834	SAN JUAN BAUTISTA 3 SSE	615	SEC 10	T13S	R04E		M	36	49	00	121	31	00	900		1943			35
D1 7835	SAN JUAN BAUTISTA MISSION	200		T12S	R04E		M	36	50	42	121	32	00	804		1900		02	35
E7 7864	SAN MATEO	30	SEC 29	T04S	R04W		M	37	34	00	122	19	00	900		1874			41
E2 7880	SAN RAFAEL	31			R06W		M	37	58	00	122	32	00	900		1948			21
E2 7880-08	SAN RAFAEL NO. 1	25		T02N	R06W		M	37	58	24	122	31	30	413		1876			21
E6 7912	SANTA CLARA UNIVERSITY	88	SEC 02	T07S	R01W	P	M	37	20	52	121	56	27	900		1881			43
D0 7916	SANTA CRUZ	125		T11S	R01W		M	36	59	00	122	01	00	900		1866			44
D3 7930	SANTA MARGARITA 2 SW	1200	SEC 36	T29S	R12E		M	35	22	00	120	38	00	900		1940			40
D3 7933	SANTA MARGARITA BSTR	1100	SEC 25	T29S	R12E		M	35	22	00	120	38	00	900		1931		03	40
F9 7964	SANTA ROSA SEWAGE PLANT	20	SEC 21	T07N	R08W	P	M	38	26	24	122	45	12	000		1956			49
F9 7965	SANTA ROSA	167		T07N	R08W		M	38	27	00	122	42	00	900		1888			49
E6 7998-01	SARATOGA CLARK	272		T07S	R01W		M	37	16	48	121	59	42	414		1956			43
E6 7998-02	SARATOGA GAP MAINT STN						M							809					43
E6 7998-03	SARATOGA KRIEGE			T08S	R02W		M	37	15	00	122	02	00	426		1960			43
E6 8068	SEARSVILLE LAKE	350	SEC 12	T06S	R03W		M	37	24	00	122	14	00	900		1949			41
F9 8072	SEBASTOPOL 4 SSE	145	SEC 24	T06N	R09W	E	M	38	21	06	122	48	42	900		1935			49
F9 8272	SKAGGS SPRING LAS LOMAS	1930	SEC 36	T10N	R12W	B	M	38	40	38	123	08	04	900		1939			49
D2 8276	SLACK CANYON	1730	SEC 22	T21S	R12E	M	M	36	05	00	120	40	00	900		1955			27
D2 8338	SOLEDAD	204		T17S	R06E		M	36	26	00	121	19	00	900		1874			27
D2 8338-01	SOLEDAD C T F	230	SEC 12	T17S	R05E	B	M	36	28	26	121	22	34	806		1961			27
E2 8351	SONOMA	20		T05N	R05W		M	38	17	00	122	27	00	900		1952			49
E0 8376	S E FARALLON	27					M	37	42	00	123	00	00	900		1941			80
D2 8446	SPRECKLES HIGHWAY BRIDGE	60		T15S	R03E		M	36	36	00	121	41	00	900		1905			27
D2 8446-01	SPRECKELS	55	SEC 16	T15S	R03E		M	36	37	14	121	39	27	000		1905			27
D1 8447	SPRECKELS HILL-LAGUNA SECA	384		T09S	R03E		M	37	12	00	121	44	00	414			1967		43
E6 8519	STEVENS CREEK RESERVOIR	600	SEC 28	T07S	R02W	H	M	37	18	00	122	05	00	414		1937			43
D1 8680	SUNSET BEACH STATE PARK	85		T12S	R01E		M	36	54	00	121	50	00	900		1956			44
E2 8779	TAMALPAIS VALLEY	250		T01N	R06W		M	37	52	42	122	32	36	901		1959			21
D3 8849	TEMPLETON	773	SEC 29	T27S	R12E		M	35	32	54	120	42	20	000		1886		05	40
F9 8885	THE GEYSERS	1668	SEC 14	T11N	R09W	G	M	38	48	02	122	49	32	900		1939			49
E2 8920-21	TIBURON TOPHAM	400		T01S	R05W		M	37	52	24	122	27	12	000		1960			21
F9 9122	UKIAH	623	SEC 17	T15N	R12W		M	39	09	00	123	12	00	900		1877			23
F9 9124	UKIAH 4 WSW	1900		T15N	R12W		M	39	08	00	123	17	00	900		1951			23
E4 9185	UPPER SAN LEANDRO FIL	390	SEC 11	T02S	R03W	G	M	37	46	00	122	10	00	900		1944			07
D1 9189	UPPER TRES PINOS	2050	SEC 07	T15S	R09E		M	36	38	00	121	02	00	900		1940			35
D3 9221	VALLETON	950	SEC 32	T23S	R12E		M	35	53	00	120	42	00	900		1940			27
E6 9270	VASONA RESERVOIR	300		T08S	R01W		M	37	14	36	121	58	00	426					43

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS FOR 1967-68

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude (° ' ")	Longitude (° ' ")	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
F9 9273	VENADO	1260	SEC 19	T09N	R10W		M	38 37 00	123 01 00	900		1939			49
E3 9305	VETERANS HOME	170	SEC 01	T06N	R05W		M	38 23 00	122 22 00	000		1912			28
E4 9420	WALMAR SCHOOL	128					M	37 57 00	122 05 00	900		1954			07
E4 9423	WALNUT CREEK 2 ESE	245	SEC 36	T01N	R02W		M	37 53 00	122 02 00	900		1887			07
E4 9426	WALNUT CREEK 2 ENE	220	SEC 30	T01N	R02W		M	37 54 00	122 01 00	900		1944			07
E4 9427	WALNUT CREEK 4 E	265	SEC 29	T01N	R01W	G	M	37 54 23	121 59 40	900		1954			07
D1 9473	WATSONVILLE WATERWORKS	95	SEC 32	T11S	R02E		M	36 56 00	121 46 00	900		1880			44
D0 9675	WILDER RANCH	50					M	36 57 36	122 05 24	000		1924			44
E3 9675-41	WILD HORSE VALLEY	1240	SEC 10	T05N	R03W	D	M	38 17 53	122 11 13	418					48
F9 9770	WOODACRE	430					M	38 00 24	122 38 30	808	049770	1950			21
E6 9814	WRIGHTS	1600	SEC 23	T09S	R01W		M	37 08 00	121 57 00	900		1918			43
F8 9851	YORKVILLE	1120	SEC 08	T12N	R12W	M	M	38 54 18	123 18 46	900		1939			23
E3 9861	YOUNTVILLE GAMBLE	120	SEC 24	T07N	R05W	P	M	38 26 05	122 22 05	806		1962			28

TABLE A-2

PRECIPITATION DATA

The definition of terms and abbreviations used in connection with this table are as follows:

- \- No record or record incomplete.

- * Amount included in the following measurement. Time distribution unknown.

- E Wholly or partially estimated.

- T Trace, an amount too small to measure.

- V Includes total from previous month.

- RB Record began.

- RE Record ended.

Precipitation values are shown to the nearest hundredth (.01) of an inch, except where Fischer & Porter recording rain gages are used, these values are shown to the nearest tenth (.1) of an inch.

TABLE A-2 (Cont.)
PRECIPITATION DATA

Precipitation in Inches

Station Name	Total July 1 to June 30	1967						1968								Total Oct. 1 to Sept 30
		July	Aug	Sept.	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.	
CENTRAL COASTAL AREA																	
SANTA CRUZ D0																	
BEN LOMOND NO. 3			RB	0	0.54	2.53	5.45	10.86	6.45	5.24	1.03	0.54	0	T	0.49	T	33.13
BOULDER CREEK LOCATELLI RCH	45.03	0	0	0	1.05	3.42	9.03	14.94	7.68	6.16	1.08	1.67	0	0	0.92	0	45.95
CORRALITOS	--	0	0	0	0.20	1.90	--	5.10	3.70	5.10	0.80	0.10	0	0	0.70	0	--
CREST RANCH	44.97	0	0	0	0.93	3.36	9.40	13.42	8.05	6.91	1.27	1.63	0	0	0.93	0	45.90
DAVENPORT	21.06	0	0	T	0.34	1.04	2.99	5.72	5.79	3.94	0.78	0.46	0	0	0.44	0.08	21.58
LOS GATOS 4 SW	36.03	0	T	0	0.52	2.46	5.93	15.46	4.47	6.04	1.20	0.95	0	0	0.30	0	37.33
SANTA CRUZ	20.91	0	0	0	0.13	2.14	3.10	3.82	4.93	5.64	0.97	0.18	0	T	0.55	0	21.46
SUNSET BEACH STATE PARK	14.00	0	0	0	0	1.20	2.00	3.00	2.70	4.10	0.90	0.10	0	0	0.20	0	14.20
WILDER RANCH	21.44	0	0	0	0.11	1.75	2.91	4.81	5.58	5.04	1.00	0.24	0	0	0.47	0	21.91
PAJARO-SAN BENITO RIVERS D1																	
BUENA VISTA	--	0	0	--	--	--	--	--	--	1.75	0.14	0.43	0	0	0.05	0	--
BUZZARD LAGOON	23.19	0	0	0	0.41	2.24	4.65	5.79	4.66	4.61	0.72	0.11	0	0	0.16	0	23.35
CHITTENDEN PASS	14.59	0	T	T	0.34	0.99	4.26	3.12	2.08	2.85	0.78	0.17	0	0	0.19	0	14.78
CHITTENDEN	13.96	0	0	T	0.29	0.95	4.10	3.00	1.86	2.81	0.77	0.18	0	0	0.16	0	14.12
CIENEGA	11.55	0	0	0.36	0.24	0.76	2.99	2.70	1.50	2.15	0.70	0.15	0	0	0	0	11.19
FREEDOM 8 NNW	--	0	0	0	0.48	2.14	5.05	7.69	3.99	--	--	0.17	0	0	0.52	0	--
GILROY	12.56	0	T	0.01	0.32	1.54	2.61	3.23	1.68	2.92	0	0.25	0	0	0.02	0	12.57
GILROY 14 ENE	11.24	0	0	0	0.30	1.06	2.34	2.43	1.99	2.20	0.79	0.13	0	0	0.08	0	11.32
HERNANDEZ 2 NW	9.30	0	0	0.65	0.07	1.33	1.53	1.22	1.34	2.20	0.76	0.20	0	0	T	0	8.65
HERNANDEZ 7 SE	--	0	0.10	0.49	0.10	1.87	1.66	--	1.62	2.50	1.01	0.52	0	0	0	0	--
HOLLISTER 1 SW	9.05	0	T	0.01	0.36	1.31	1.41	1.51	1.20	2.62	0.41	0.22	0	0	0	0	9.04
HOLLISTER 2	9.20	0	0	0	0.40	1.30	1.60	1.40	1.30	2.70	0.40	0.10	0	0	0	0	9.20
HOLLISTER 10 ENE	12.12E	0	0	0	0.10	2.13	1.91E	2.18	2.26	2.81	0.35	0.38	0	0	0.41	0	12.53
MORGAN HILL 2 E	13.37E	0	0	T	0.22	1.66	2.27	3.93	1.23	3.21	0.70	0.15	0 E	0	0.39	0	13.76E
MORGAN HILL SCS	--	0	0	0	0.20	1.90	2.30	4.10	1.20	3.30	0.80	--	0	0	0.10	0	--
MOUNT MADONNA	22.66	0	0	0	0.37	2.20	4.16	5.93	4.08	4.73	0.97	0.22	0	0	0.64	0	23.30
MOUNT MADONNA COUNTY PARK	21.11	0.02	0.01	0.04	0.44	1.87	3.98	4.89	4.11	4.17	1.12	0.35	0.11	0.03	0.54	0.10	21.71
PAICINES OHRWALL RANCH	9.39	0	0	0.15	0.25	0.65	2.27	1.98	1.20	2.11	0.45	0.33	0	0	0	0	9.24
QUIEN SABE RAY CAMP	11.31	0	0.05	0.04	0.37	1.13	2.96	1.79	1.79	2.42	0.30	0.40	0.06	T	0.22	0	11.44
RANCHO QUIEN SABE	10.62	0	0	0	0.59	1.05	2.60	1.84	1.38	2.38	0.35	0.43	0	0	0.25	0	10.87
SAN BENITO	6.44	0	0	0.25	0.09	0.94	0.95	0.93	0.57	1.75	0.70	0.26	0	0	0.13	0	6.32
SAN FELIPE HIGHWAY STATION	11.03	0	0	0	0.46	1.27	2.68	1.94	1.90	1.95	0.67	0.16	0	0	0.15	0	11.18
SAN JUAN BAUTISTA 3 SSE	12.27	0	0	0	0.15	1.76	1.68	2.15	1.69	3.50	0.92	0.42	0	0	0.10	0	12.37
SAN JUAN BAUTISTA MISSION	--	0	0	0.05	--	1.30	2.50	--	1.29	--	0.97	0.30	0	T	0.02	0	--
SPRECKELS HILL-LAGUNA SECA	--	RE															
UPPER TRES PINOS	--	0	0	0.20	0.07	1.43	1.30	1.34	0.87	1.65	0.73	--	0	0	0	0	--
WATSONVILLE WATERWORKS	15.59	0	0	0	0.05	1.04	3.27	3.48	2.58	4.26	0.85	0.06	T	0	0.22	0.01	15.82
LOWER SALINAS RIVER D2																	
ARROYO SECO	--	0	0	0.18	0.25	1.43	1.94	2.82	0.94	2.30	--	0.17	0	0	0	0	--
DEL MONTE	--	0	0	0.14	0.21	1.29	1.31	1.81	0.70	1.75	0.33	--	0	0	0.08	0	--
FREMONT PEAK	18.55	0	0	0.12	0.67	2.34	2.59	4.30	2.09	4.79	0.66	0.80	0.19	T	0.73	0	19.16
GONZALES 9 ENE	8.22	0	0	0.06	0.18	1.36	1.44	1.38	0.52	2.32	0.45	0.37	0.14	0	0	0	8.16
GREENFIELD BAKER	6.40	0	0	0.62	0.08	0.66	1.34	0.79	0.37	1.76	0.78	0	0	0	0	0	5.78
HAMES VALLEY	6.62	0	0	0.54	0	1.56	0.60	0.85	0.55	1.65	0.87	T	0	0	T	0	6.08
KING CITY	6.04	0	0	0.49	0.05	0.62	0.98	0.88	0.88	1.43	0.71	T	0	0	T	0	5.55
MONTEREY	10.97	0.02	0.06	0.17	0.38	1.61	2.27	0.88	1.40	3.06	0.79	0.32	0.01	0.06	0.23	0.05	11.06
PALOMA	13.61	T	0	0.69	0.32	1.26	1.82	3.06	2.22	3.04	0.68	0.29	0.23	T	0.06	0	12.98
PINNACLES NATL MONUMENT	9.14	0	0	0.14	1.09	0.90	1.49	0.99	1.17	2.30	0.90	0.16	0	0.02	0	0	9.02
PRIEST VALLEY	11.55	0	0.04	0.11	0.15	2.89	1.87	1.44	1.39	2.32	1.01	0.33	0	0	T	0	11.40
SALINAS 2 E	8.82	0	0	0.16	0.08	1.35	1.87	1.93	0.97	2.05	0.32	0.09	0	0	0	0	8.66
SALINAS FAA AIRPORT	8.10	0	T	0.15	0.05	1.38	1.43	1.82	0.85	2.03	0.33	0.06	T	T	0.08	T	8.03
SALINAS DE DAMPIERRE	--	T	T	0.15	RE												
SAN ARDO	--	0	0	0.34	0.02	0.97	1.31	--	--	1.30	0.75	T	0	0	--	0	--
SLACK CANYON	7.58	0	0	0.18	0.10	1.87	1.01	0.60	1.08	1.91	0.70	0.13	0	0	0	0	7.40
SOLEDAD	5.13	0.02	0	0.05	0.06	0.43	1.38	0.79	0.42	1.53	0.40	0.05	0	T	T	0	5.06
SOLEDAD CTF	5.27	0	0	0.03	0.20	0.57	1.45	0.70	0.42	1.44	0.39	0.07	0	0	0	0.52	5.76
SPRECKELS HIGHWAY BRIDGE	9.43	0	0	0.21	0.01	1.10	2.05	1.89	0.88	2.58	0.49	0.21	0.01	T	0.05	0	9.27
SPRECKELS	8.62	0	0	0.27	0.15	1.16	1.29	2.04	0.80	2.28	0.49	0.14	0	0	0.05	0	8.40
UPPER SALINAS RIVER D3																	
ATASCADERO MAINTENANCE STN	12.12	0	0	0.70	0.14	2.55	1.83	1.86	1.42	2.30	1.32	0	0	0	0	0	11.42
BRADLEY	--	T	0	0.35	0	1.17	1.25	0.71	0.53	1.00	0.90	0.18	--	--	--	--	--
BRYSON	11.20	0	0	0.39	0.26	1.55	2.25	1.55	0.90	2.84	1.17	0.29	0	0	0	0	10.81
CHOLAME ALLEY RANCH	7.69	0	0	0.40	0	2.28	0.93	0.80	0.71	1.78	0.72	0.07	0	0	0	0	7.29
LA PANZA RANCH	6.53	0	0	0.50	0	1.79	1.44	0.57	0.38	1.14	0.67	0.04	0	0	0	0	6.03
LINN RANCH	8.27	0.02	0	0.68	0.13	1.84	1.44	0.86	0.67	1.66	0.88	0.09	0	0	RE		
LOCKWOOD 2 N	6.67	0	0	0.28	0	1.30	1.09	1.04	0.69	1.64	0.58	0.05	0	0	0	0	6.39
NACIMIENTO DAM	8.28	0.07	0	0.48	0.07	1.56	1.71	0.63	0.67	1.82	1.22	0.05	0	0	0	0	7.73
PARKFIELD	11.79	0	0	1.75	0	4.10	1.46	1.01	0.55	1.74	1.08	0.10	0	0	0	0	10.04
PARKFIELD 7 NNW	--	0	0	1.05	0.16	1.60	0.71	0.55	0.82	--	0.50	0.23	0	0	0.06	0	--
PASO ROBLES	8.74	T	0	0.79	0.14	1.74	1.70	1.19	0.68	1.76	0.70	0.04	0	0	T	0	7.95
PASO ROBLES 5 NW	--	0	0	1.06	0.07	1.71	1.47	--	0.60	1.65	0.75	0.11	0	0	0	0	--
PASO ROBLES FAA AIRPORT	7.35	0.02	0	0.28	0.14	1.39	0.97	1.15	0.81	1.75	0.82	0.02	0	0	0	0	7.05
SALINAS DAM	12.54	0	0	1.11	0.04	3.14	1.80	1.65	1.02	3.20	0.33	0.25	0	0	T	0	11.43
SAN ANTONIO MISSION	11.10	0	0	0.80	0.18	1.43	1.87	1.90	1.65	2.50	0.71	0.06	0	0	0	0	10.30

TABLE A-2 (Cont.)

PRECIPITATION DATA

Precipitation in Inches

Station Name	Total July 1 to June 30	1967						1968								Total Oct. 1 to Sept. 30
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
CENTRAL COASTAL AREA																	
UPPER SALINAS RIVER D3																	
SANTA MARGARITA 2 SW	19.98	0	0	1.21	0.23	4.32	2.92	3.39	1.88	4.31	1.48	0.24	0	0	T	0	18.77
SANTA MARGARITA BSTR	20.11	T	0	1.32	0.20	4.33	3.32	3.31	1.89	4.05	1.49	0.20	0	T	T	T	18.79
TEMPLETON	11.16	0	0	0.62	0.16	1.98	2.67	2.03	0.85	1.89	0.96	0	0	0	0	0	10.54
VALLETON	--	0	0	0.22	0.11	1.50	0.92	0.66	--	1.68	0.90	0.12	0	0	0	0	--
MONTEREY COAST D4																	
BIG SUR STATE PARK	25.03	0	0	0.18	0.29	1.83	4.51	8.30	4.23	3.94	1.25	0.50	0	0	0.21	0	25.06
CARMEL VALLEY	11.60	0	0	0.10	0.20	2.04	2.06	2.90	0.61	2.45	0.58	0.57	0.09	0.04	0.05	0	11.59
LUCIA WILLOW SPRINGS	15.74	0	0	0.25	0.21	1.27	1.97	3.56	3.05	3.74	1.40	0.29	0	0	0.18	0	15.67
ROOSEVELT RANCH	--	0	T	--	0.35	1.44	3.56	5.63	3.28	3.18	0.75	0.50	0	0	0.26	0	18.95
SAN CLEMENTE DAM	12.90	0	0	0.13	0.27	1.13	2.49	3.36	1.01	3.15	0.81	0.43	0.12	0	0.02	0	12.79
SAN FRANCISCO BAY AREA																	
SAN FRANCISCO BAY E0																	
S E FARALLON	11.73	0	0	0.04	0.68	1.26	1.39	2.69	2.11	3.14	0.20	0.22	0	0	0.05	0.04	11.78
COAST-MARIN E-1																	
MUIR WOODS	28.22	0	0	0.12	0.86	2.37	3.00	8.48	7.37	4.66	0.30	1.06	0	0	0.63	0.17	28.90
MARIN-SONOMA E2																	
KENTFIELD	35.18	0	0	T	1.07	3.25	7.12	10.22	7.63	5.01	0.43	0.45	0	0	0.97	0	36.15
MILL VALLEY	19.32	0	0	0	0	1.33	2.43	6.47	5.66	3.13	0.30	0	0	0	0.10	0	19.42
NOVATO FIRE HOUSE	19.39	0	0	0	0.76	1.14	3.15	7.31	3.03	3.74	0.20	0.06	0	0	0.25	0	19.64
OAKVILLE 4 SW NO. 2	33.42	0	0	0.10	1.26	2.93	5.27	11.83	5.17	5.40	0.68	0.78	0	0	0.31	0.09	33.72
PETALUMA FIRE STN NO. 2	20.96	0	0	0.03	0.82	2.35	3.15	6.58	3.70	3.43	0.32	0.58	0	0	0.62	0.03	21.58
PETALUMA BURNS	25.86	0	0	0.03	0.87	1.84	4.03	9.04	4.69	4.28	0.69	0.39	0	0	0.36	0.06	26.25
SAN ANSELMO	30.41	0	0	0	0	2.21	5.47	11.20	6.25	4.70	0.48	0.10	0	0	0.15	0	30.56
SAN RAFAEL	28.97	0	0	0.02	0.44	2.71	5.94	9.77	5.56	4.06	0.32	0.15	0	T	0.32	0	29.27
SAN RAFAEL NO. 1	28.68	0	0	0.03	0.68	2.39	5.77	9.40	6.05	3.95	0.31	0.10	0	T	0.27	T	28.92
SONOMA	19.42	0	0	0.02	0.53	1.21	1.97	7.34	3.69	3.92	0.27	0.47	0	0	0.27	0	19.67
TAMALPAIS VALLEY	25.56	0	0	0.09	0.78	1.94	3.20	7.53	6.29	4.62	0.40	0.71	0	0	0.56	0.15	26.18
TIBURON TOPHAM	--	0	T	0	0.43	1.20	5.24	7.12	3.71	2.99	0.20	0.25	--	0	0.37	0	--
NAPA-SOLANO E3																	
ANGWIN PUC	30.13	0	0	0.13	1.16	2.77	4.85	10.46	5.50	3.91	0.63	0.72	T	0	0.97	0.02	30.99
ATLAS ROAD	--	0	0	--	1.00	2.50	3.50	9.50	5.30	--	--	--	0	0	1.10	0	--
CALISTOGA	32.66	0	T	0.13	1.43	2.97	5.20	12.13	5.06	4.15	0.58	1.01	0	0	0.94	0.07	33.54
CARNEROS VALLEY	23.16	0	0	0.08	0.70	1.77	2.71	8.68	4.39	4.10	0.20	0.53	0	0	0.33	0.20	23.61
COLLINSVILLE	11.61	0	0	0.03	0.32	0.97	1.34	4.14	2.28	1.82	0.71	T	0	0	0	0	11.58
DENVERTON 1 S	11.57	T	0	0.04	0.42	1.13	1.01	3.80	2.44	2.28	0.35	0.10	0	T	T	0	11.53
DUTTONS LANDING	15.57	0	0	0.05	0.50	1.24	1.61	5.89	3.40	2.51	0.24	0.13	0	0	0.09	0	15.61
FAIRFIELD	--	0	0	0.07	0.29	1.24	1.57	5.01	2.85	2.51	0.25	--	0	0	--	0	--
FAIRFIELD FIRE STATION	14.56	T	T	0.05	0.36	1.36	1.75	4.93	3.11	2.31	0.29	0.40	0	0	1.18	0	15.69
GREEN VALLEY	18.92	0	0	0.05	0.72	2.18	2.00	6.43	3.91	3.04	0.35	0.24	0	0	0.36	0	19.23
LAKE CURRY	18.41	0	0	0.03	0.55	1.62	2.23	7.40	3.31	2.90	0.10	0.27	0	0	0.33	0	18.71
MARE ISLAND NAVY	15.56	0	0	0.04	0.89	1.21	2.05	5.64	2.56	2.55	0.27	0.31	0	0	0.04	T	15.52
NAPA STATE HOSPITAL	17.16	0	0	0.09	0.80	1.49	2.07	6.50	2.99	2.41	0.45	0.36	0	0	0.25	0	17.32
OAKVILLE 1 WNW	--	--	--	--	--	--	3.60	10.30	4.14	4.14	0.50	0.32	0	0	0.35	T	--
SAINT HELENA	29.24	0	0	0.10	0.92	2.41	4.59	11.55	4.80	3.85	0.55	0.47	0	0	0.81	T	29.95
SAINT HELENA 4 WSW	31.17	0	0	0.01	1.40	3.40	4.70	11.60	5.70	3.46	0.90	0	0	0	0.80	0.20	32.16
VETERANS HOME	29.41	0	0	0.07	0.89	1.99	5.09	12.17	4.42	4.14	0.35	0.29	0	0	0.53	0	29.87
WILD HORSE VALLEY	21.45	0	0	0.08	0.96	2.62	2.03	7.47	4.16	3.30	0.58	0.25	0	0	0.43	0	21.80
YOUNTVILLE GAMBLE	24.03	0	0.42	0.31	0.54	1.77	3.83	8.50	4.17	4.08	0.09	0.32	0	0	0.96	0	24.26
EAST BAY E4																	
ALAMO 1 N	16.24	T	T	0.03	0.71	1.00	2.98	6.34	2.18	2.41	0.40	0.19	T	T	0.10	0	16.31
BERKELEY	18.08	0	0	0.02	0.56	1.56	2.23	6.16	3.04	3.84	0.44	0.23	0	0	0.55	0	18.61
BURTON RANCH	17.99	0	T	0.03	0.66	1.28	3.00	6.72	2.67	2.87	0.46	0.30	0	T	0.14	0	18.10
CONCORD 3 E	12.51	0	0	0.06	0.56	1.01	1.83	4.67	1.60	2.29	0.44	0.05	0	0	0.02	0	12.47
CROCKETT	16.55	0	0	0.04	0.93	1.61	2.00	6.14	2.22	2.94	0.47	0.20	0	0	0.02	T	16.53
HAYWARD 6 ESE	18.73	0	0	0	0.58	1.51	2.71	6.59	1.89	3.59	1.04	0.79	0.03	0	0.14	0	18.87
LAFAYETTE 2 NNE	18.13	0.01	T	0	0.80	1.02	2.67	7.01	2.79	3.23	0.38	0.22	0	T	0.13	T	18.25
MARTINEZ 3 S	15.39	0	0	0.06	0.66	1.46	2.01	5.39	1.85	3.37	0.52	0.07	0	0	0.29	0	15.62
MARTINEZ 3 SSE	15.06	0	T	0.04	0.62	1.39	1.90	5.54	1.82	3.02	0.55	0.04	0	0.02	0.11	0.01	15.02
MARTINEZ FIRE STATION	15.00	0	0	0.14	0.55	1.19	1.95	5.30	2.09	3.06	0.50	0.22	0	0	0.17	0	15.03
MOUNT DIABLO NORTH GATE	18.84	0	0	0.05	0.55	1.31	4.21	5.92	2.52	3.46	0.31	0.51	0	0	0.18	0	18.97
OAKLAND 39TH AVENUE	19.59	0	T	0.03	0.68	1.64	3.04	6.67	3.02	3.51	0.48	0.52	T	T	0.33	0	19.89
OAKLAND CITY HALL	--	0	0	T	0.41	1.25	1.78	--	1.46	2.61	0.26	0.05	0	0.01	0.01	0	--
OAKLAND WB AIRPORT	15.78	0	T	0.01	0.53	1.32	2.70	5.05	1.82	3.07	0.83	0.45	T	T	0.03	T	15.80
PORT CHICAGO NAD	11.51	0	0	0.06	0.41	1.08	1.46	4.07	1.57	2.46	0.40	T	0	0	T	0	11.45
RICHMOND	16.47	0	0	0.02	0.38	1.02	2.40	5.20	3.21	3.60	0.46	0.18	0	T	0.13	0	16.58
SAINT MARYS COLLEGE	20.06	0	0	0.04	0.85	1.74	3.27	6.92	3.19	3.28	0.45	0.32	0	T	0.30	0	20.32
UPPER SAN LEANDRO FIL	19.71	0	0	0.02	0.66	1.20	3.79	6.61	2.81	3.61	0.44	0.57	T	T	0.25	0.03	19.97
WALMAR SCHOOL	13.78	0	0	0	0	1.15	1.51	5.84	2.03	2.68	0.43	0.14	0	0	0.15	0	13.93
WALNUT CREEK 2 ESE	13.61	0	0	0.04	0.65	0.96	2.25	5.43	1.84	2.00	0.34	0.10	0	0	0.03	0	13.60

TABLE A-2 (Cont.)
PRECIPITATION DATA

Precipitation in Inches

Station Name	Total July 1 to June 30	1967						1968								Total Oct. 1 to Sept 30
		July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
SAN FRANCISCO BAY AREA																	
EAST BAY E4																	
WALNUT CREEK 2 ENE	12.43	0	0	0.03	0.52	0.91	1.80	5.26	1.70	1.80	0.31	0.10	0	0	0.02	0	12.42
WALNUT CREEK 4 E	12.26	T	T	0.04	0.61	0.86	1.91	5.04	1.65	1.69	0.29	0.17	0	T	0.03	0	12.25
ALAMEDA CREEK E5																	
CALAVERAS RESERVOIR	17.68	0	0	0	0.36	1.31	3.92	5.63	1.52	3.53	0.58	0.81	0.02	0	0.38	0	18.06
GERBER RANCH	11.26	0	T	T	0.20	1.15	2.13	3.00	1.46	2.17	0.53	0.62	0	0	0.04	0	11.30
LIVERMORE COUNTY FD	10.57	0	0	0.02	0.24	0.88	1.62	3.93	0.90	2.40	0.43	0.15	0	0	T	T	10.55
LIVERMORE SEWAGE PLANT	10.62	0	0	0.03	0.07	1.13	1.16	4.18	0.91	2.45	0.58	0.11	0	0	0.05	0	10.64
LIVERMORE 2 SSW	--	0	T	0.02	0.24	RE											
MOUNT HAMILTON	--	0	0	0	0.63	1.15	--	4.10	1.00	2.75	0.40	0.51	0	0	0.33	0	--
NILES PINNA	--	--	--	T	0.43	1.09	3.22	4.51	1.03	3.52	0.98	0.43	0	0	2.35	0	--
NEWARK	10.86	0	0	T	0.22	1.02	2.18	3.77	0.56	2.17	0.76	0.18	0	0	0.72	0	11.58
PLEASANTON NURSERY	15.34	0	0	0.02	0.28	1.26	2.43	5.71	1.16	3.39	0.87	0.22	0	0	0.02	0	15.34
SANTA CLARA VALLEY E6																	
ALAMITOS PERCOLATION POND	13.66	0	0	T	0.10	1.59	1.68	5.87	0.97	2.44	0.83	0.18	0	0	0.06	0	13.72
ALMADEN RESERVOIR	24.48	0	0	T	T	2.02	3.41	10.10	1.94	4.87	1.01	1.13	0	0	0.47	0	24.95
BLACK MOUNTAIN 2 SW	26.67	0	0	T	0.63	1.94	5.34	8.58	3.06	4.83	1.18	1.05	0.06	0	0.55	0.08	27.30
CALERO RESERVOIR	16.22	0	0	0.01	0.20	1.78	2.05	6.55	1.07	3.09	0.92	0.55	0	0	0.04	0	16.25
CAMBRIAN PARK	15.34	0	0	T	0.13	1.29	2.73	6.48	1.18	2.67	0.56	0.30	0	0	0.05	0	15.39
CAMPBELL WATER COMPANY	14.51	0	T	T	0.09	1.24	1.86	7.01	0.95	2.51	0.70	0.15	0	0	0.04	0	14.55
COYOTE RESERVOIR	14.00	0	0	0	0.40	1.60	2.98	3.21	1.28	3.28	1.20	0.05	T	0	0.05	0.01	14.06
GILROY 8 NE	12.49	0	0	0	0.47	1.82	2.45	2.69	1.68	2.35	0.79	0.24	0	0	0.18	0	12.67
GUADALUPE RESERVOIR	24.70	0	0	0.01	0.22	2.35	2.69	11.34	1.94	4.32	0.99	0.84	0	0	0.05	0	24.74
LAKE ELSMAN														RB	0.14	0	--
LEROY ANDERSON DAM	13.54	0	0	0	0.20	1.42	2.24	4.46	1.32	3.11	0.67	0.12	T	0	0.78	0	14.32
LEXINGTON RESERVOIR	29.80	0	0	0.02	0.36	2.62	4.55	11.89	3.25	5.01	1.20	0.90	0	0	0.16	0	29.94
LOS GATOS	19.33	0	T	0	0.16	1.65	2.66	9.03	1.37	3.37	0.67	0.42	0	0	0.07	0	19.40
LOS GATOS WRIGHT	37.30	0	T	0	0.52	2.46	5.93	15.46	4.74	6.04	1.20	0.95	0	RE			
MORGAN HILL 2 E	--	0	0	T	0.22	--	2.27	3.93	1.23	3.21	0.70	0.15	--	0	0.39	0	--
MORGAN HILL 6 WNW	--	0	0	0	--	--	1.20	6.99	2.04	3.43	--	--	0	0	--	0	--
NEWARK	10.86	0	0	T	0.22	1.02	2.18	3.77	0.56	2.17	0.76	0.18	0	0	0.72	0	11.58
PALO ALTO CITY HALL	11.81	0	T	0.02	0.22	1.11	2.03	3.91	0.46	3.00	0.96	0.10	0	T	0.04	0	11.83
PENITENCIA RAIN GAGE	13.93	0	0	0.02	0.14	1.38	2.80	5.03	0.91	2.89	0.76	0	0	0	0.26	0	14.17
REDWOOD CITY	15.58	0	0	0	0.25	1.33	2.86	5.44	1.42	3.43	0.78	0.07	0	0	0.11	0	15.69
SAN JOSE	13.14	0	0	0.02	0.19	1.27	2.15	5.37	0.77	2.62	0.57	0.18	T	T	1.96	0	15.08
SAN JOSE DECIDUOUS FFS	13.22	0	0	0.01	0.15	1.10	2.12	5.91	0.76	2.48	0.61	0.08	0	0	0.22	0	13.43
SANTA CLARA UNIVERSITY	14.38	0	0	0	0.35	1.34	2.83	5.73	0.74	2.64	0.60	0.15	0	0	0.66	0	15.04
SARATOGA CLARK	17.74	0	0	T	0.11	1.00	2.68	8.48	1.35	2.84	0.89	0.39	0	0	0.13	0	17.87
SARATOGA GAP MAINT STN	31.99	0	0	0	0.76	1.60	6.16	11.49	4.27	5.53	1.30	0.88	0	0	0.38	0	32.37
SARATOGA KRIEGE	19.61	0	0	T	0.08	0.97	3.18	9.63	1.46	3.11	0.78	0.40	0	0	0.09	0	19.70
SEARSVILLE LAKE	21.05	0	0	0	0.35	1.80	4.46	6.50	1.89	4.38	1.25	0.42	0	T	0.36	0	21.41
STEVENS CREEK RESERVOIR	22.72	0	0	T	0.32	1.44	3.87	9.49	2.09	3.31	1.38	0.82	0	0	0.34	0	23.06
VASONA RESERVOIR	17.45	0	0	0.11	0.34	1.40	2.76	7.43	1.75	2.50	0.74	0.42	0	0	0.12	0	17.46
WRIGHTS	35.51	0	0	T	0.59	3.50	4.67	13.10	4.56	6.48	1.28	1.33	0	0	0.33	0	35.84
BAYSIDE-SAN MATEO E7																	
BURLINGAME	16.75	0	0	0.02	0.31	1.36	3.28	5.37	1.70	3.43	0.90	0.38	0	0	0.07	0	16.80
SAN FRANCISCO WB AIRPORT	15.83	T	T	0.01	0.48	1.29	3.50	5.25	1.44	3.03	0.55	0.28	T	T	0.06	T	15.88
SAN FRANCISCO FOB	14.46	0	T	0.04	0.53	1.10	2.12	4.54	2.28	3.15	0.48	0.22	T	T	0.03	0.06	14.51
SAN MATEO	13.93	0	0	T	0.21	1.35	2.18	5.68	1.04	2.80	0.49	0.18	T	0	0.07	0	14.00
COAST-SAN MATEO E8																	
HALF MOON BAY	21.22	0	0	T	0.76	2.13	2.89	6.19	2.62	5.78	0.61	0.24	T	0	0.28	0	21.50
LA HONDA	24.31	0	0	0.17	0.70	2.03	4.25	7.46	2.48	4.88	1.41	0.86	0.07	T	0.63	0	24.77
PORTOLA STATE PARK	34.14	0	T	T	0.74	2.49	7.21	10.99	4.07	5.98	1.63	1.01	0.02	0.03	0.43	0.13	34.73
SAN FRANCISCO SUNSET	15.48	0	0	0.05	0.68	1.02	2.11	5.02	2.77	3.41	0.26	0.16	T	0.01	0.10	0.05	15.59
SAN GREGORIO 2 SE	23.79	0	0.08	0.08	0.92	2.11	4.09	6.43	2.77	5.03	1.36	0.80	0.12	0.15	0.42	0.28	24.48
NORTH COASTAL AREA																	
MENDOCINO COAST F8																	
BOONVILLE HMS	33.53	0	T	0.02	2.12	3.91	6.56	9.98	4.73	5.05	0.57	0.59	0	0	1.25	0.14	34.90
BOONVILLE FARRER	--	0	0	T	RE												
CLOVERDALE 11 W	--	0	0	--	--	--	--	--	--	--	0.97	0.95	0	0	--	--	--
FORT BRAGG	33.19	0.06	0.02	0.45	3.60	3.90	6.51	8.05	4.33	4.43	0.56	1.19	0.09	0.05	1.34	0.43	34.48
FORT BRAGG AVIATION	30.08	0	0	T	2.83	4.03	4.44	7.48	4.70	3.85	1.39	1.27	0.09	0.05	1.02	0.39	31.54
FORT ROSS	30.96	T	0	0.07	1.37	4.52	3.98	8.11	7.55	4.09	0.40	0.85	0.02	0	0.98	0.35	32.22
NAVARRO 1 NW	31.76	0	0	0.10	2.74	4.00	4.42	9.77	4.31	5.32	0	1.10	0	0	0.97	0	32.63
PHILO 2 NW	32.94	0	0	0	2.45	4.07	4.93	10.61	4.53	4.76	0.81	0.78	T	0	1.19	0.14	34.27
PHILO 4 NW	34.15	0	0	0.23	2.38	4.10	5.11	10.62	4.39	5.50	0.72	1.10	0	0	1.42	0.21	35.55
POINT ARENA	31.39	T	0.05	0.19	1.95	4.20	4.53	8.37	5.11	5.42	0.55	1.00	0.02	0.02	1.07	0.23	32.47
SKAGGS SPRING LAS LOMAS	--	0	0	0.10	2.64	5.20	8.67	--	9.22	7.07	1.05	1.26	0	0	2.00	0.20	--
YORKVILLE	--	0	0	0	2.70	3.20	7.80	--	8.20	6.00	0.90	0.80	0	0	2.50	0.10	--

TABLE A-2 (Cont.)
PRECIPITATION DATA

Precipitation in Inches

Station Name	Total July 1 to June 30	1967						1968									Total Oct. 1 to Sept. 30
		July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
NORTH COASTAL AREA																	
RUSSIAN RIVER F9																	
ALPINE DAM	35.02	0	0	0	0.95	3.34	4.50	9.20	9.45	5.94	0.60	1.04	0	0	1.32	0	36.34
BLAKES LANDING	--	0	0	0	1.43	2.79	3.86	5.85	5.50	3.95	0.50	0.20	--	--	0.40	0.10	--
BON TEMPA DAM	28.37	0	0	0	0.75	4.41	2.68	8.91	5.69	4.64	0.66	0.63	0	0	0.75	0	29.12
CAZADERO	54.26	0	0	0.02	2.92	7.26	8.18	16.91	12.05	5.59	1.01	0.32	0	0	1.56	0.35	56.15
CLOVERDALE 3 SSE	37.46	0	0.01	0.04	1.48	3.64	6.30	12.12	6.42	5.33	1.75	0.37	0	0	1.18	T	38.59
COYOTE DAM	29.87	0	0.03	0.03	1.98	3.35	4.98	9.18	5.10	4.05	0.40	0.77	0	0	1.65	0.14	31.60
GEYSERVILLE HOCKING	--	0	0	0.15	--	3.56	5.63	11.40	5.14	6.15	0.10	--	0	0	2.20	0	--
GRATON	32.98	0	0	0.05	0.98	2.97	6.05	10.66	6.57	4.02	1.21	0.47	0	0	0.83	0.04	33.80
GRATON 1 W	--	0	0	0.01	1.23	3.54	5.81	10.61	6.63	4.67	0	--	0	RE			
GUERNEVILLE	--	0	0	0	1.34	2.90	5.24	12.76	8.21	5.64	2.27	--	0	0	1.30	0.03	--
HEALDSBURG	34.63	0	0	0.02	1.14	3.47	5.89	10.96	6.59	4.89	1.44	0.23	0	0	0.86	0.03	35.50
HEALDSBURG NO. 2	32.95	0	0	0.04	1.09	3.06	5.83	10.20	6.44	4.82	1.19	0.28	0	0	0.65	0.03	33.59
HOPLAND LARGO STATION	--	0	0	0	1.73	3.15	5.05	10.09	5.68	--	0.66	--	--	--	--	--	--
INVERNESS MERY	--	0	0	0	1.22	3.15	4.35	8.76	6.16	5.05	0.60	RE					
KELLOGG	40.04	0	T	0.22	2.06	4.43	6.54	12.95	6.92	5.02	0.84	1.06	T	0	1.08	0.17	41.07
KENT LAKE	41.48	0	0	0.05	1.31	2.63	8.33	11.57	9.08	7.30	0.54	0.67	0	0	1.15	0.07	42.65
KNIGHTS VALLEY	--	0	0	0.12	2.39	3.34	7.89	11.40	4.59	4.13	0.02	0.48	--	--	--	0.23	--
LAGUNITAS LAKE	36.87	0	0	0	0.80	3.25	5.85	11.37	8.11	6.12	0.73	0.64	0	0	0.75	0	37.62
MOUNT TAMALPAIS 2 SW	31.31	0	0	0.09	1.25	2.83	3.54	8.38	8.70	4.94	0.38	1.20	0	0	1.10	0.20	32.52
NICASIO	23.97	0	0	0.01	1.38	1.26	3.60	7.58	4.28	5.17	0.40	0.29	0	0	0.36	0.06	24.38
NOVATO 8 WNW	--	0	0	0	0.70	2.45	1.39	4.74	4.15	3.60	0.86	--	0	0	--	0	--
OCCIDENTAL	41.41	0	0	0.12	1.98	4.14	6.28	11.76	9.24	5.72	1.04	1.13	0	0	0.99	0.19	42.47
PHOENIX LAKE DAM	39.06	0	0	0	1.04	3.20	6.21	12.64	8.92	6.05	0.67	0.33	0	0	0.65	0	39.72
POTTER VALLEY 3 SE	27.57	0	0	0.13	1.77	3.13	4.52	8.04	4.98	3.90	0.13	0.97	0	0	1.53	0.13	29.10
POTTER VALLEY POWERHOUSE	36.75	0	0	0	2.47	4.47	5.88	10.38	6.36	5.41	0.23	1.55	0	0	2.37	0.11	39.23
REDWOOD VALLEY	--	0	0.03	0	1.86	3.08	3.99	8.35	5.23	3.15	0.38	--	0	0	1.37	0.12	--
SANTA ROSA SEWAGE PLANT	24.03	0	0	0.06	0.57	2.37	4.38	6.84	5.22	3.69	0.68	0.22	0	T	0.57	0.02	24.56
SANTA ROSA	25.01	0	0	0.07	0.86	2.68	4.01	7.63	4.82	4.20	0.48	0.26	0	0	1.68	0.02	26.64
SEBASTOPOL 4 SSE	24.30	0	0	0	0.90	0.10	3.30	8.40	6.40	3.70	1.00	0.50	0	0	0.60	0	24.90
THE GEYSERS	--	0	0.03	0.05	2.21	4.80	6.15	18.87	3.57	5.54	1.45	--	0	0	1.62	0	--
UKIAH	32.95	0	0.03	0.01	2.09	4.15	5.90	9.58	5.60	4.04	0.48	1.07	0	0	1.35	0.07	34.33
UKIAH 4 WSW	41.09	T	0.03	0.06	2.63	5.32	7.69	11.48	6.35	5.74	0.45	1.33	0.01	0	2.40	0.20	43.60
VENADO	--	0	0	0	2.30	5.40	--	18.20	8.80	7.20	1.50	0.70	0	0	2.50	0.10	--
WOODACRE	33.12	0	0	0.06	1.00	3.26	6.04	10.58	5.82	5.70	0.38	0.28	0	T	0.66	0.03	33.75

TABLE A-3

TEMPERATURE DATA

The definition of terms and the abbreviations used in connection with Table A-3 are as follows:

MAXIMUM	The highest temperature of record for the month.
MINIMUM	The lowest temperature of record for the month.
AVG MAX	The arithmetic average of daily maximum temperatures for the month.
AVG MIN	The arithmetic average of daily minimum temperatures for the month.
AVERAGE	The arithmetic average of the daily maximum and minimum temperatures for the month.
-	Record incomplete.
RB	Record began.
RE	Record ended.

TABLE A-3 (Cont.)
TEMPERATURE DATA

Temperature in Degrees Fahrenheit

Station Name		1967						1968								
		July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
CENTRAL COASTAL AREA																
SANTA CRUZ COAST D0																
BEN LOMOND NO. 3	MAXIMUM			100	95	92	75	79	79	85	89	94	100	99	101	102
	MINIMUM			47	39	33	28	25	28	32	31	34	37	43	44	38
	AVG MAX		RB	85.7	82.3	68.2	58.8	59.4	64.0	67.0	74.0	74.1	82.8	84.8	83.5	84.3
	AVG MIN			52.0	46.7	44.3	36.8	34.8	44.5	40.0	39.9	43.9	48.9	50.2	50.9	50.0
	AVERAGE			68.9	64.5	56.3	47.8	47.1	54.3	53.5	57.0	59.0	65.9	67.5	67.2	67.2
DAVENPORT	MAXIMUM	75	69	80	89	77	70	74	71	70	72	73	75	75	90	79
	MINIMUM	47	47	50	47	44	30	37	43	40	39	40	44	48	43	43
	AVG MAX	62.8	61.7	68.6	70.3	65.1	--	57.8	60.2	60.2	58.7	59.3	62.7	62.8	67.2	68.3
	AVG MIN	50.0	50.6	54.4	52.1	50.4	--	43.9	48.9	46.7	44.8	46.0	49.5	50.5	52.4	50.9
	AVERAGE	56.4	56.2	61.5	61.2	57.6	--	50.9	54.6	53.5	51.8	52.7	56.3	56.7	59.8	59.6
SANTA CRUZ	MAXIMUM	88	86	93	96	85	74	78	77	83	85	89	88	90	99	96
	MINIMUM	44	47	47	40	36	28	26	37	34	32	35	38	44	42	38
	AVG MAX	76.1	73.5	79.2	80.1	69.1	58.6	60.6	64.3	66.1	70.5	71.4	75.2	75.4	77.9	78.7
	AVG MIN	51.1	52.2	53.4	45.3	44.3	35.9	36.5	46.3	42.3	41.4	43.7	48.3	50.0	50.1	48.3
	AVERAGE	63.6	62.9	66.3	62.7	56.7	47.3	48.6	55.3	54.2	56.0	57.6	61.8	62.7	64.0	63.5
PAJARO-SAN BENITO RIVERS D1																
GILROY	MAXIMUM	103	103	100	94	86	74	74	78	86	91	91	98	100	102	98
	MINIMUM	49	50	50	30	32	25	24	33	33	34	37	42	49	49	41
	AVG MAX	91.0	90.2	86.9	81.3	70.4	57.5	58.3	64.3	68.7	73.1	75.4	83.8	87.7	84.8	84.9
	AVG MIN	52.7	53.0	54.7	44.5	43.2	31.5	32.8	45.6	41.1	41.8	45.1	51.7	53.1	53.8	51.4
	AVERAGE	71.9	71.6	70.8	62.9	56.8	44.5	45.6	55.0	54.9	57.5	60.3	67.8	70.4	69.3	68.2
QUIEN SABE HAY CAMP	MAXIMUM	99	100	95	90	84	77	78	80	84	86	90	95	100	97	96
	MINIMUM	41	43	44	33	26	13	16	29	24	22	26	29	42	38	32
	AVG MAX	90.6	92.5	84.8	80.0	70.2	58.1	61.6	65.9	66.7	72.4	74.7	89.7	89.2	82.8	83.0
	AVG MIN	50.7	51.4	49.8	39.1	37.7	27.9	28.5	42.3	34.8	33.1	38.8	44.0	50.2	48.5	44.9
	AVERAGE	70.6	72.0	67.3	59.6	54.0	43.0	45.1	54.1	50.8	52.8	56.8	66.9	69.7	65.7	64.0
WATSONVILLE WATERWORKS	MAXIMUM	81	79	93	95	89	74	77	77	83	85	85	83	82	98	93
	MINIMUM	42	50	48	41	35	26	28	37	36	35	37	42	48	43	42
	AVG MAX	71.2	69.4	75.1	76.8	69.5	58.9	60.1	63.6	66.4	66.6	66.6	69.8	70.4	72.1	73.6
	AVG MIN	51.8	53.4	54.4	46.9	45.4	36.0	36.3	47.2	42.9	43.7	46.7	50.8	51.7	53.2	51.7
	AVERAGE	61.5	61.4	64.8	61.9	57.5	47.5	48.2	55.4	54.7	55.2	56.7	60.3	61.1	62.7	62.7
LOWER SALINAS RIVER D2																
FREMONT PEAK	MAXIMUM	102	103	94	90	83	74	76	76	80	84	83	90	101	98	94
	MINIMUM	58	60	43	42	30	16	24	37	33	30	35	40	44	39	40
	AVG MAX	92.1	94.2	82.0	77.5	65.3	52.5	56.5	60.9	68.6	66.6	67.2	78.2	85.1	78.2	81.6
	AVG MIN	66.0	69.1	57.7	52.4	46.1	34.6	36.4	44.6	40.6	42.4	44.4	53.3	61.8	55.5	51.5
	AVERAGE	79.0	81.6	69.8	65.0	55.7	43.6	46.5	52.8	54.6	54.5	55.8	65.8	73.5	66.9	66.6
KING CITY	MAXIMUM	101	98	100	94	88	74	80	84	90	92	91	99	101	--	100
	MINIMUM	44	46	47	38	29	17	22	36	32	31	34	40	45	--	37
	AVG MAX	87.7	85.5	85.5	84.2	72.2	59.9	64.5	69.6	72.7	76.7	77.7	84.2	85.1	--	84.4
	AVG MIN	51.5	52.2	53.3	44.1	42.9	30.6	32.8	45.4	39.7	40.8	44.4	50.3	52.2	--	47.9
	AVERAGE	69.6	68.9	69.4	64.2	57.6	45.3	48.7	57.5	56.2	58.8	61.1	67.3	68.7	--	66.2
MONTEREY	MAXIMUM	80	78	92	92	87	74	77	75	80	82	74	81	80	95	90
	MINIMUM	48	51	51	48	42	27	33	40	41	40	41	43	46	51	46
	AVG MAX	67.2	68.3	73.1	74.9	67.0	58.7	59.5	63.0	63.6	63.2	62.8	66.3	66.4	70.5	72.6
	AVG MIN	51.8	52.5	55.4	53.3	49.8	41.6	42.5	48.9	46.5	45.8	47.5	50.0	51.6	53.8	53.3
	AVERAGE	59.5	60.4	64.3	64.1	58.4	50.2	51.0	56.0	55.1	54.5	55.2	58.2	59.0	62.2	63.0
PINNACLES NATL MONUMENT	MAXIMUM	108	110	102	96	94	76	81	83	87	91	95	103	105	106	102
	MINIMUM	43	46	48	38	29	19	20	31	30	30	34	38	43	42	38
	AVG MAX	100.4	102.5	93.2	86.9	73.8	59.7	63.3	67.4	69.8	76.0	79.8	92.3	97.9	92.3	92.7
	AVG MIN	53.3	54.7	52.0	43.9	41.3	32.1	31.3	41.6	37.3	37.6	41.7	48.8	52.0	49.5	47.8
	AVERAGE	76.9	78.6	72.6	65.4	57.6	45.9	47.3	54.5	53.6	56.8	60.8	70.6	75.0	70.9	70.3
PRIEST VALLEY	MAXIMUM	105	106	97	90	84	71	76	77	81	86	94	102	103	102	99
	MINIMUM	41	40	42	28	25	13	16	28	25	22	25	35	41	33	30
	AVG MAX	97.6	99.5	90.2	82.2	68.0	54.3	58.1	62.7	64.0	72.0	77.7	90.9	95.3	89.1	89.0
	AVG MIN	50.0	51.2	46.9	34.2	36.1	27.3	26.1	39.0	32.7	32.8	37.6	46.1	50.7	45.5	42.2
	AVERAGE	73.8	75.4	68.6	58.2	52.1	40.8	42.1	50.9	48.4	52.4	57.7	68.5	73.0	67.3	65.6
SALINAS 2 E	MAXIMUM	84	80	96	98	90	78	80	80	86	88	80	84	83	102	94
	MINIMUM	45	49	50	42	35	24	27	36	34	32	39	42	49	47	40
	AVG MAX	72.7	72.1	77.2	80.4	70.2	60.8	62.6	66.4	67.5	68.4	68.7	71.6	71.4	--	76.6
	AVG MIN	52.4	53.3	55.3	48.2	45.8	35.7	37.2	47.5	42.8	42.5	47.5	50.2	52.5	53.4	51.4
	AVERAGE	62.6	62.7	66.3	64.3	58.0	48.3	49.9	57.0	55.2	55.5	58.1	60.9	62.0	--	64.0
SALINAS FAA AIRPORT	MAXIMUM	83	77	95	96	90	76	80	76	83	86	78	83	81	98	93
	MINIMUM	44	49	50	40	34	30	30	39	34	33	38	41	49	47	40
	AVG MAX	71.1	70.2	75.3	78.3	68.7	60.7	64.4	63.1	64.1	65.4	65.3	68.6	69.0	73.3	74.2
	AVG MIN	51.4	52.4	54.6	47.9	45.6	38.9	39.2	47.1	42.4	42.7	47.1	50.8	52.6	53.8	52.0
	AVERAGE	61.3	61.3	65.0	63.1	57.2	49.8	51.8	55.1	53.3	54.1	56.2	59.7	60.8	63.6	63.1
SOLEDAD CTF	MAXIMUM	104	86	96	93	90	73	79	80	87	88	84	88	--	97	94
	MINIMUM	49	45	48	39	34	21	25	35	34	35	35	42	--	42	39
	AVG MAX	83.9	75.7	79.2	79.0	71.2	58.6	61.7	65.6	68.3	69.8	70.4	74.9	--	76.3	77.4
	AVG MIN	57.1	51.9	53.8	45.8	44.3	34.4	35.8	46.6	41.1	40.4	45.4	49.5	--	50.9	49.3
	AVERAGE	70.5	63.8	66.5	62.4	57.8	46.5	48.8	56.1	54.7	55.1	57.9	62.2	--	63.6	63.4

TABLE A-3 (Cont.)
TEMPERATURE DATA

Temperature in Degrees Fahrenheit

Station Name		1967						1968								
		July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
CENTRAL COASTAL AREA																
LOWER SALINAS RIVER D2																
SPRECKELS	MAXIMUM	90	79	96	96	90	77	82	80	86	90	85	82	85	100	95
	MINIMUM	44	48	48	40	38	20	24	36	55	60	36	40	46	45	30
	AVG MAX	74.5	--	80.9	81.2	72.4	58.7	64.0	67.8	71.0	70.3	70.6	72.5	74.3	76.7	81.0
	AVG MIN	51.3	--	53.0	44.7	43.4	31.7	32.4	46.0	44.0	43.5	44.7	50.8	51.9	52.6	46.0
	AVERAGE	62.9	--	67.0	63.0	57.9	45.2	48.2	56.9	57.5	56.9	57.7	61.7	63.1	64.7	63.5
UPPER SALINAS RIVER D3																
ATASCADERO MAINT STATION	MAXIMUM	106	107	98	94	92	72	76	79	78	90	96	98	103	100	--
	MINIMUM	51	51	50	38	30	20	20	34	32	32	33	42	44	40	--
	AVG MAX	97.5	97.6	89.8	83.4	72.2	58.7	62.0	66.0	67.4	75.3	78.9	85.8	94.5	87.7	--
	AVG MIN	58.3	57.5	55.6	44.0	42.5	29.0	29.6	43.6	39.7	38.8	43.1	51.4	54.8	51.5	--
	AVERAGE	77.9	77.6	72.7	63.7	57.4	43.8	45.8	54.8	53.6	57.1	61.0	68.6	74.7	69.6	--
LINN RANCH	MAXIMUM	104	103	94	90	83	67	74	76	84	89	95	102	102		
	MINIMUM	52	53	46	39	30	22	21	32	31	32	31	44	48		
	AVG MAX	94.9	95.9	87.3	80.9	67.1	55.3	58.5	64.0	67.4	73.0	77.9	88.1	92.9	RE	
	AVG MIN	57.2	57.5	56.0	46.8	43.8	31.3	31.4	45.1	38.3	41.0	46.5	54.9	56.1		
	AVERAGE	76.0	76.7	71.6	63.9	55.5	43.3	45.0	54.6	52.9	57.0	62.2	71.5	74.5		
NACIMIENTO DAM	MAXIMUM	109	108	98	94	89	72	74	80	87	93	98	102	105	103	105
	MINIMUM	44	50	50	40	35	18	24	35	33	33	35	42	46	45	40
	AVG MAX	99.1	101.3	91.8	85.5	73.1	58.9	61.0	66.2	69.9	75.8	81.5	91.5	96.7	92.4	92.9
	AVG MIN	55.2	56.3	56.1	48.9	45.4	32.0	33.2	45.0	39.8	41.3	43.2	48.8	51.3	51.0	49.3
	AVERAGE	77.2	78.8	74.0	67.2	59.3	45.5	47.1	55.6	54.9	58.6	62.4	70.2	74.0	71.7	71.1
PASO ROBLES	MAXIMUM	106	106	99	95	89	73	78	79	87	91	98	104	104	100	102
	MINIMUM	47	45	45	29	26	15	17	32	30	26	30	38	43	37	33
	AVG MAX	97.0	98.5	91.5	85.3	71.5	59.3	63.1	67.6	70.0	76.3	80.5	88.9	93.3	89.8	89.8
	AVG MIN	52.3	51.4	51.6	40.0	40.1	27.9	28.5	44.1	36.8	37.0	41.2	46.8	50.8	48.0	45.6
	AVERAGE	74.7	75.0	71.6	62.7	55.8	43.6	45.8	55.9	53.4	56.7	60.9	67.9	72.1	68.9	67.7
PASO ROBLES FAA AIRPORT	MAXIMUM	110	110	101	94	89	73	78	79	88	92	99	105	107	104	104
	MINIMUM	51	50	50	36	30	17	20	33	31	31	35	43	47	40	38
	AVG MAX	99.3	100.7	91.0	84.9	70.3	58.8	61.5	66.3	69.4	76.3	81.4	91.0	95.9	90.4	90.0
	AVG MIN	56.7	56.3	55.7	43.6	42.5	29.5	30.8	44.3	38.5	40.5	45.1	51.5	55.2	52.4	49.8
	AVERAGE	78.0	78.5	73.4	64.3	56.4	44.2	46.2	55.3	54.0	58.4	63.3	71.3	75.6	71.4	69.9
SAN ANTONIO MISSION	MAXIMUM	109	112	101	95	94	76	78	80	85	91	100	103	111	105	105
	MINIMUM	45	45	46	36	27	15	19	30	28	26	28	38	42	34	32
	AVG MAX	103.7	104.7	95.2	88.2	73.7	61.0	63.7	67.4	69.9	77.5	83.1	95.6	101.1	94.5	93.4
	AVG MIN	54.4	53.9	51.8	42.1	39.0	28.3	29.8	40.2	35.2	34.8	38.9	45.8	51.0	44.9	42.9
	AVERAGE	79.1	79.3	73.5	65.2	56.4	44.7	46.8	53.8	52.6	56.2	61.0	70.7	76.1	69.7	68.2
TEMPLETON	MAXIMUM	107	108	100	99	88	72	76	78	83	90	96	104	103	99	101
	MINIMUM	49	42	48	37	30	18	21	35	32	31	32	40	42	37	36
	AVG MAX	95.5	96.2	89.3	84.8	65.6	58.8	61.0	65.3	68.4	72.5	77.4	86.8	91.7	87.9	86.6
	AVG MIN	55.8	54.5	55.0	43.5	43.5	31.7	32.9	46.3	39.4	38.7	44.4	49.0	53.3	49.6	46.4
	AVERAGE	75.6	75.4	72.2	64.2	54.6	45.3	47.0	55.8	53.9	55.6	60.9	67.9	72.5	68.8	66.5
MONTEREY COAST D4																
CARMEL VALLEY	MAXIMUM	97	99	99	97	96	78	80	80	85	85	83	90	89	99	102
	MINIMUM	41	42	46	42	36	23	28	34	35	32	34	35	40	41	40
	AVG MAX	78.5	79.3	82.6	82.8	70.8	62.0	62.6	66.7	66.9	68.7	69.5	76.1	76.3	79.0	80.5
	AVG MIN	49.4	49.8	52.7	48.5	45.7	36.3	37.5	46.1	40.9	41.0	43.7	47.2	48.3	49.2	49.0
	AVERAGE	64.0	64.7	67.7	65.7	58.3	49.2	50.1	56.4	53.9	54.9	56.6	61.7	62.3	64.1	64.8
ROOSEVELT RANCH	MAXIMUM	91	87	87	86	82	71	75	72	77	86	85	88	86	88	88
	MINIMUM	52	51	53	54	49	37	40	47	45	44	45	50	52	54	53
	AVG MAX	77.3	71.1	70.1	75.4	67.8	58.2	59.1	60.7	63.3	65.6	66.3	71.9	72.0	70.5	72.5
	AVG MIN	61.9	57.2	56.5	63.2	56.3	48.0	48.2	52.8	51.6	51.7	53.1	60.2	58.0	58.8	60.0
	AVERAGE	69.6	64.2	63.3	69.3	62.1	53.1	53.7	56.8	57.5	58.7	59.7	66.1	65.0	64.7	66.3
SAN FRANCISCO BAY AREA																
MARIN-SONOMA E2																
KENTFIELD	MAXIMUM	98	92	97	89	86	76	72	73	81	85	87	99	99	100	97
	MINIMUM	46	47	48	44	36	28	28	36	37	39	37	44	46	47	45
	AVG MAX	82.9	84.1	84.1	79.3	67.9	56.8	54.6	61.2	66.5	71.5	71.6	81.4	83.3	--	82.2
	AVG MIN	51.2	51.0	53.5	49.3	46.4	36.4	36.5	46.3	43.2	43.1	46.0	50.6	51.2	--	53.4
	AVERAGE	67.1	67.6	68.8	64.3	57.2	46.6	45.6	53.8	54.9	57.3	58.8	66.0	67.3	--	67.8
PETALUMA FIRE STN NO. 2	MAXIMUM	98	--	100	91	89	81	70	75	84	89	83	93	98	105	100
	MINIMUM	46	47	49	40	30	25	23	31	32	35	36	45	42	49	45
	AVG MAX	83.9	--	83.8	80.1	68.8	58.6	55.1	63.3	65.9	71.2	71.2	80.1	83.5	80.8	81.8
	AVG MIN	51.1	50.8	54.0	46.7	43.9	34.8	34.6	46.2	42.6	41.9	45.9	50.7	51.1	54.3	52.7
	AVERAGE	67.5	--	68.9	63.4	56.4	46.7	44.9	54.8	54.3	56.6	58.6	65.4	67.3	67.6	67.3
SAN RAFAEL	MAXIMUM	95	91	97	90	86	79	75	75	82	87	83	97	98	100	97
	MINIMUM	51	50	52	48	41	33	32	39	43	41	41	49	49	51	48
	AVG MAX	84.0	83.8	83.8	81.0	69.5	59.7	59.2	65.2	68.9	74.5	72.3	82.0	83.0	82.0	82.4
	AVG MIN	53.8	53.9	56.9	53.6	49.9	40.6	39.5	48.4	46.7	45.7	49.5	53.5	53.8	56.4	57.2
	AVERAGE	68.9	68.9	70.4	67.3	59.7	50.2	49.4	56.8	57.8	60.6	60.9	67.8	68.4	69.2	69.8

TABLE A-3 (Cont.)
TEMPERATURE DATA

Temperature in Degrees Fahrenheit

Station Name		1967						1968								
		July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
SAN FRANCISCO BAY AREA																
MARIN-SONOMA E2																
SONOMA	MAXIMUM	103	104	100	90	86	80	71	76	84	89	91	100	105	106	100
	MINIMUM	43	43	44	39	29	24	22	31	32	30	33	40	42	44	40
	AVG MAX	90.5	93.8	88.7	82.2	67.9	58.3	55.3	64.6	68.5	75.6	76.7	87.6	90.8	86.6	87.4
	AVG MIN	50.0	49.1	50.4	43.5	42.2	32.7	32.1	44.6	39.7	39.5	43.1	47.5	49.4	51.1	49.7
	AVERAGE	70.3	71.5	69.6	62.9	55.1	45.5	43.7	54.6	54.1	57.6	59.9	67.6	70.1	68.9	68.6
NAPA-SOLANO E3																
ANGWIN PUC	MAXIMUM	96	101	95	84	86	74	70	69	78	81	88	98	101	95	89
	MINIMUM	47	50	45	42	32	25	24	33	33	29	36	44	44	39	41
	AVG MAX	88.9	92.3	84.8	74.0	64.1	51.4	50.9	56.4	60.3	68.0	71.1	84.7	88.8	79.0	78.1
	AVG MIN	56.3	60.9	53.6	52.3	46.9	37.1	36.6	43.6	42.2	44.6	44.7	53.2	54.0	49.8	51.7
	AVERAGE	72.6	76.6	69.2	63.2	55.5	44.3	43.8	50.0	51.3	56.3	57.9	69.0	71.4	64.4	64.9
CALISTOGA	MAXIMUM	100	104	102	98	92	84	83	78	83	87	93	102	105	103	102
	MINIMUM	44	33	42	38	30	22	31	31	30	31	34	38	40	43	41
	AVG MAX	93.5	96.2	89.9	82.5	69.3	59.9	57.5	64.4	67.8	75.3	76.8	89.5	93.4	87.6	88.1
	AVG MIN	51.6	50.8	51.0	44.5	42.4	35.5	31.8	43.6	38.9	38.3	41.2	47.2	50.1	50.4	49.4
	AVERAGE	72.6	73.5	70.5	63.5	55.9	47.7	44.7	54.0	53.4	56.8	59.0	68.4	71.8	69.0	68.8
DENVERTON 1 S	MAXIMUM	101	102	100	91	85	72	67	77	82	85	89	97	102	104	98
	MINIMUM	53	53	50	43	34	22	18	32	32	30	38	50	52	45	40
	AVG MAX	89.1	90.7	86.5	80.0	67.9	54.3	52.8	--	68.2	73.9	75.0	79.5	88.5	85.0	85.9
	AVG MIN	59.4	58.3	57.2	51.2	45.4	32.0	32.9	--	39.3	43.3	48.6	54.5	56.4	53.0	54.3
	AVERAGE	74.2	74.5	71.8	65.6	56.7	43.2	42.9	--	53.8	58.6	61.8	67.0	72.5	69.0	70.1
DUTTONS LANDING	MAXIMUM	92	88	98	88	83	78	68	72	80	86	88	93	95	102	95
	MINIMUM	50	49	51	43	35	29	26	37	36	39	39	40	48	45	45
	AVG MAX	76.8	78.3	80.1	77.9	68.9	--	56.1	61.1	65.7	72.0	71.7	77.0	78.4	78.1	81.5
	AVG MIN	54.6	53.3	54.0	48.2	45.7	--	34.6	45.1	44.0	44.5	46.1	51.3	52.9	53.8	53.0
	AVERAGE	65.7	65.8	67.1	63.1	57.3	--	45.4	53.1	54.9	58.3	58.9	64.2	65.7	66.0	67.3
FAIRFIELD FIRE STATION	MAXIMUM	102	105	97	89	87	74	76	80	84	87	91	99	102	102	98
	MINIMUM	52	52	54	42	34	26	24	35	37	32	38	39	52	50	43
	AVG MAX	90.7	94.5	88.3	83.1	69.1	57.5	55.4	65.1	67.8	74.6	74.6	85.9	88.0	83.9	85.6
	AVG MIN	57.2	57.2	58.6	50.7	46.8	35.5	34.4	45.6	44.5	45.7	49.3	54.6	56.4	56.7	54.2
	AVERAGE	74.0	75.9	73.5	66.9	58.0	46.5	44.9	55.4	56.2	60.2	62.0	70.3	72.2	70.3	69.9
MARE ISLAND NAVY	MAXIMUM	93	90	96	86	82	73	66	72	82	85	88	95	96	98	95
	MINIMUM	57	53	58	53	42	34	33	40	43	44	46	54	56	56	55
	AVG MAX	81.8	79.3	81.4	78.0	65.7	55.4	53.3	61.5	67.2	72.3	73.5	81.9	82.0	82.3	81.8
	AVG MIN	60.0	58.5	61.9	58.1	53.0	41.9	41.1	50.7	50.1	50.9	54.0	59.1	59.9	61.8	61.3
	AVERAGE	70.9	68.9	71.7	68.0	59.4	48.7	47.2	56.1	58.7	61.6	63.8	70.5	71.0	72.1	71.6
NAPA STATE HOSPITAL	MAXIMUM	99	98	102	92	85	81	80	77	83	87	90	100	98	105	97
	MINIMUM	49	49	49	43	33	--	26	35	34	36	37	44	45	45	44
	AVG MAX	82.9	84.9	85.4	82.3	69.2	61.3	57.0	64.9	68.3	74.5	73.6	82.6	82.2	81.8	83.7
	AVG MIN	54.0	53.4	54.3	49.1	45.5	37.3	35.3	46.7	42.9	44.0	46.0	52.8	53.0	54.0	54.3
	AVERAGE	68.5	69.2	69.9	65.7	57.4	49.3	46.2	55.8	55.6	59.3	59.8	67.7	67.6	67.9	69.0
SAINT HELENA	MAXIMUM	102	104	101	90	91	83	79	79	85	88	95	101	103	102	101
	MINIMUM	46	47	46	42	30	25	22	31	32	35	35	44	46	45	42
	AVG MAX	89.8	92.3	87.7	81.1	69.3	58.3	56.5	64.0	67.9	75.8	76.8	87.7	89.3	85.6	86.7
	AVG MIN	53.2	52.7	52.3	46.8	43.7	35.2	32.6	44.8	40.1	41.5	45.0	51.1	52.7	53.1	51.8
	AVERAGE	71.5	72.5	70.0	64.0	56.5	46.8	44.6	54.4	54.0	58.7	60.9	69.4	71.0	69.4	69.3
VETERANS HOME	MAXIMUM	104	103	99	87	85	78	76	76	82	90	97	100	103	96	97
	MINIMUM	47	46	45	42	33	28	26	34	38	35	38	43	48	47	42
	AVG MAX	89.2	89.6	85.8	79.7	69.5	56.3	56.8	62.7	67.8	76.3	79.8	89.2	90.0	84.8	85.2
	AVG MIN	54.3	54.0	53.3	48.6	43.7	36.0	34.5	45.3	43.5	43.2	45.4	52.7	53.8	54.1	53.0
	AVERAGE	71.8	71.8	69.6	64.2	56.6	46.2	45.7	54.0	55.7	59.8	62.6	70.9	71.9	69.4	69.1
EAST BAY E4																
ALAMO 1 N	MAXIMUM	107	105	97	85	82	70	69	72	82	84	92	103	102	98	95
	MINIMUM	43	50	48	45	34	28	26	34	34	36	39	46	48	47	42
	AVG MAX	93.5	93.3	87.6	77.2	67.1	55.3	53.0	62.8	66.9	73.0	75.6	88.9	92.5	80.6	84.5
	AVG MIN	54.6	56.3	55.9	49.5	46.6	36.0	34.1	45.3	42.0	44.5	48.3	53.7	54.5	51.1	51.4
	AVERAGE	74.0	74.8	71.8	63.4	56.9	45.7	43.6	54.1	54.5	58.8	62.0	71.3	73.5	65.9	68.0
BERKELEY	MAXIMUM	79	77	91	85	81	75	73	74	79	80	78	85	84	98	88
	MINIMUM	52	51	52	49	44	35	33	43	43	41	43	49	47	51	48
	AVG MAX	69.1	69.0	71.7	74.1	65.6	57.3	56.0	61.2	63.7	65.7	64.5	71.1	68.6	70.1	72.8
	AVG MIN	54.1	53.9	57.2	54.1	51.9	43.7	41.3	49.8	48.2	47.2	48.5	52.7	52.1	54.6	56.1
	AVERAGE	61.6	61.5	64.5	64.1	58.8	50.5	48.7	55.5	56.0	56.5	56.5	61.9	60.4	62.4	64.5
CROCKETT	MAXIMUM	97	93	96	87	87	75	69	73	81	85	88	94	97	100	98
	MINIMUM	52	53	53	47	39	30	30	36	38	41	41	51	51	53	49
	AVG MAX	84.4	86.3	83.3	79.2	69.0	57.6	53.5	61.2	67.3	72.3	72.8	82.5	83.6	81.6	83.2
	AVG MIN	54.7	55.2	58.0	52.2	48.5	37.6	37.4	47.4	45.5	46.4	50.2	55.6	54.9	57.3	56.0
	AVERAGE	69.6	70.8	70.7	65.7	58.8	47.6	45.5	54.3	56.4	59.4	61.5	69.1	69.3	69.5	69.6
MARTINEZ FIRE STATION	MAXIMUM	100	98	94	85	84	73	69	73	79	87	89	96	99	99	96
	MINIMUM	51	51	51	44	35	27	28	35	37	40	40	49	50	52	42
	AVG MAX	88.2	88.9	84.3	77.9	67.2	55.8	53.0	60.3	66.1	72.8	73.8	84.4	87.1	82.0	82.2
	AVG MIN	56.1	55.6	57.1	50.1	46.9	35.4	34.8	46.1	44.5	45.2	49.7	54.7	54.9	56.2	53.7
	AVERAGE	72.2	72.3	70.7	64.0	57.1	45.6	43.9	53.2	55.3	59.0	61.8	69.6	71.0	69.1	68.0

TABLE A-3 (Cont.)
TEMPERATURE DATA

Temperature in Degrees Fahrenheit

Station Name		1967						1968								
		July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
SAN FRANCISCO BAY AREA																
EAST BAY E4																
MOUNT DIABLO NORTH GATE	MAXIMUM	100	104	96	89	84	70	74	71	79	84	87	97	100	99	93
	MINIMUM	58	60	48	44	32	22	29	37	36	33	38	43	48	48	44
	AVG MAX	93.0	94.8	87.0	77.4	67.7	53.0	55.4	59.9	61.9	68.2	70.0	83.7	88.0	79.8	83.1
	AVG MIN	66.4	69.0	60.5	55.3	49.5	38.9	39.9	45.6	43.7	45.7	47.2	56.9	61.5	57.7	56.4
	AVERAGE	79.7	81.9	73.8	66.4	58.6	46.0	47.7	52.8	52.8	57.0	58.6	70.3	74.8	68.8	69.8
OAKLAND 39TH AVENUE	MAXIMUM	93	92	95	89	84	73	71	75	82	84	86	88	93	101	93
	MINIMUM	49	48	50	46	35	38	30	39	38	41	42	48	47	51	45
	AVG MAX	79.0	79.6	78.8	77.2	65.7	56.2	55.5	63.4	66.0	70.1	69.8	77.3	77.0	76.6	79.1
	AVG MIN	52.2	51.5	54 1	50.3	47.5	41.3	39.4	48.9	46.5	46.2	48.4	52.4	52.3	54.2	53.4
	AVERAGE	65.6	65.6	66.5	63.8	56.6	48.8	47.5	56.2	56.3	58.2	59.1	64.9	64.7	65.4	66.3
OAKLAND CITY HALL	MAXIMUM	78	80	91	86	82	73	--	75	78	80	82	81	83	100	97
	MINIMUM	53	51	54	52	45	35	--	42	43	46	47	51	50	54	50
	AVG MAX	70.1	69.5	73.4	74.8	64.1	55.1	--	59.3	61.5	64.3	64.9	69.7	68.7	70.8	71.6
	AVG MIN	54.6	54.6	58.2	56.9	53.1	43.8	--	48.9	50.3	49.3	49.2	54.3	54.1	57.4	56.4
	AVERAGE	62.4	62.1	65.8	65.9	58.6	49.5	--	54.1	55.9	56.8	57.1	62.0	61.4	64.1	64.0
OAKLAND WB AIRPORT	MAXIMUM	83	79	90	85	78	73	74	74	79	83	75	86	87	89	94
	MINIMUM	54	53	57	50	43	36	33	43	44	45	46	50	53	55	50
	AVG MAX	70.3	71.0	73.6	72.5	65.5	56.1	53.6	60.0	62.3	64.8	65.0	70.0	69.5	72.4	74.1
	AVG MIN	57.0	56.8	59.3	54.6	51.8	41.7	40.5	50.9	49.4	49.2	52.7	56.0	56.8	59.2	57.8
	AVERAGE	63.7	63.9	66.5	63.6	58.7	48.9	47.1	55.5	55.9	57.0	58.9	63.0	63.2	65.8	66.0
PORT CHICAGO NAD	MAXIMUM	101	101	96	86	85	72	71	73	83	86	90	98	100	100	97
	MINIMUM	49	50	50	41	29	23	21	32	33	30	34	46	47	49	42
	AVG MAX	91.7	92.7	86.9	79.3	67.8	56.4	54.0	63.0	67.9	75.1	76.5	87.9	90.3	86.4	85.8
	AVG MIN	54.2	53.7	55.2	47.0	43.3	32.3	32.7	43.3	40.9	39.9	45.0	53.2	53.5	54.4	52.1
	AVERAGE	73.0	73.2	71.1	63.2	55.6	44.4	43.4	53.2	54.4	57.5	60.8	70.6	71.9	70.4	69.0
RICHMOND	MAXIMUM	83	79	94	87	85	76	73	75	79	84	82	85	84	98	95
	MINIMUM	52	53	49	48	40	33	31	39	41	42	43	52	51	55	52
	AVG MAX	69.3	69.5	73.7	76.1	68.4	58.1	56.5	62.6	65.5	68.8	67.1	71.7	69.0	72.2	75.8
	AVG MIN	55.2	55.6	57.1	53.9	50.2	39.9	39.4	49.4	48.5	47.9	51.7	55.6	55.2	58.9	57.7
	AVERAGE	62.3	62.6	65.4	65.0	59.3	49.0	48.0	56.0	57.0	58.4	59.4	63.7	62.1	65.6	66.8
SAINT MARYS COLLEGE	MAXIMUM	98	100	93	83	80	70	69	69	80	86	87	95	95	98	93
	MINIMUM	51	47	49	36	27	21	21	31	32	31	33	42	46	46	37
	AVG MAX	85.5	87.9	81.3	75.6	63.6	54.1	51.3	59.6	63.6	72.2	69.2	80.3	82.3	78.2	78.9
	AVG MIN	55.1	54.4	54.5	44.6	42.2	30.9	31.5	43.3	40.8	42.0	46.3	51.1	52.5	53.7	50.6
	AVERAGE	70.3	71.2	67.9	60.1	52.9	42.5	41.4	51.5	52.2	57.1	57.8	65.7	67.4	66.0	64.8
UPPER SAN LEANDRO FIL	MAXIMUM	91	90	--	89	86	74	72	74	80	90	87	89	92	100	95
	MINIMUM	50	51	50	47	39	29	29	32	36	39	40	46	45	50	45
	AVG MAX	76.3	78.1	--	75.9	67.8	58.0	56.7	62.0	66.4	70.7	67.8	75.4	76.9	74.8	77.7
	AVG MIN	53.1	53.2	55.0	51.5	49.4	39.0	37.2	46.6	42.4	43.5	45.6	50.0	51.0	53.5	52.9
	AVERAGE	64.7	65.7	--	63.7	58.6	48.5	47.0	54.3	54.4	57.1	56.7	62.7	64.0	64.2	65.3
WALNUT CREEK 2 ESE	MAXIMUM	100	103	96	87	83	73	72	74	83	86	90	99	103	99	95
	MINIMUM	46	47	47	39	29	23	21	32	30	30	35	42	46	47	40
	AVG MAX	90.7	93.3	86.7	79.5	68.7	56.7	54.4	63.7	67.8	73.8	74.4	85.1	89.0	83.8	84.9
	AVG MIN	52.8	52.4	52.1	42.9	41.9	31.2	30.5	41.6	39.2	38.7	45.1	51.0	53.3	54.0	50.4
	AVERAGE	71.8	72.9	69.4	61.2	55.3	44.0	42.5	52.7	53.5	56.3	59.8	68.1	71.2	68.9	67.7
ALAMEDA CREEK E5																
LIVERMORE COUNTY FD	MAXIMUM	101	104	92	--	89	73	72	74	84	90	90	100	105	105	100
	MINIMUM	50	52	52	--	28	25	22	33	31	30	33	38	46	46	40
	AVG MAX	91.4	92.0	84.8	--	70.8	57.1	57.2	64.8	68.4	74.6	75.9	87.7	91.3	87.3	87.1
	AVG MIN	55.5	56.8	57.6	--	41.7	33.6	32.5	43.7	39.2	38.3	43.5	49.4	53.1	52.3	51.1
	AVERAGE	73.5	74.4	71.2	--	56.3	45.4	44.9	54.3	53.8	56.5	59.7	68.6	72.2	69.8	69.1
LIVERMORE SEWAGE PLANT	MAXIMUM	102	104	98	88	90	72	72	72	83	88	88	98	101	100	98
	MINIMUM	44	47	48	40	26	24	19	34	32	30	34	42	50	48	42
	AVG MAX	89.7	92.6	86.5	80.7	68.6	58.2	56.0	63.2	66.8	73.7	73.6	85.1	86.6	83.9	84.2
	AVG MIN	52.9	54.2	53.6	44.7	40.8	31.8	30.7	44.6	40.3	38.8	45.4	51.4	54.4	54.0	53.5
	AVERAGE	71.3	73.4	70.0	62.7	54.7	45.0	43.4	53.9	53.6	56.3	59.5	68.2	70.5	69.4	68.6
LIVERMORE 2 SSW	MAXIMUM	104	108	99	91	--										
	MINIMUM	48	49	50	41	--										
	AVG MAX	91.8	94.2	87.6	80.9	--	RE									
	AVG MIN	53.5	55.4	55.2	46.5	--										
	AVERAGE	72.7	74.8	71.4	63.7	--										
MOUNT HAMILTON	MAXIMUM	92	93	84	79	76	64	67	67	69	74	76	88	88	91	89
	MINIMUM	58	64	44	38	30	12	20	26	29	28	32	38	50	41	39
	AVG MAX	83.3	86.0	77.0	69.3	58.5	45.8	49.5	54.6	53.2	59.1	61.9	76.1	81.5	74.8	75.3
	AVG MIN	66.3	70.9	59.7	52.0	45.8	31.7	36.6	41.3	40.0	43.0	46.0	58.7	66.0	57.9	59.1
	AVERAGE	74.8	78.5	68.4	60.7	52.2	38.8	43.1	48.0	46.6	51.1	54.0	67.4	73.8	66.4	67.2
NEWARK	MAXIMUM	90	89	93	87	83	73	70	75	78	81	80	90	92	98	94
	MINIMUM	54	54	55	50	41	29	30	40	41	33	41	49	54	55	50
	AVG MAX	77.1	78.8	78.3	75.7	68.3	57.6	54.8	62.1	64.9	63.6	67.5	74.5	76.3	76.0	76.9
	AVG MIN	56.0	56.8	59.0	54.0	50.4	39.0	38.5	50.0	47.3	43.4	50.1	55.5	56.6	58.5	57.3
	AVERAGE	66.6	67.8	68.7	64.9	59.4	48.3	46.7	56.1	56.1	53.5	58.8	65.0	66.5	67.3	67.1

TABLE A-3 (Cont.)
TEMPERATURE DATA

Temperature in Degrees Fahrenheit

Station Name		1967						1968								
		July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
SAN FRANCISCO BAY AREA																
ALAMEDA CREEK E5																
PLEASANTON NURSERY	MAXIMUM	100	103	96	90	88	75	72	76	82	87	88	101	104	99	98
	MINIMUM	48	48	50	38	26	22	21	34	32	31	35	40	42	44	36
	AVG MAX	91.8	93.2	86.7	80.5	68.8	57.0	55.3	63.6	67.0	72.3	74.2	85.1	88.6	83.4	84.3
	AVG MIN	53.2	54.1	54.8	45.1	42.8	33.0	33.0	46.8	41.6	39.4	45.2	50.7	51.8	52.7	49.4
	AVERAGE	72.5	73.6	70.8	62.8	55.8	45.0	44.2	55.2	54.3	55.9	59.7	67.9	70.2	68.1	66.9
SANTA CLARA VALLEY E6																
ALAMITOS PERCOLATION POND	MAXIMUM	100	97	99	91	87	75	72	76	84	89	87	91	97	102	95
	MINIMUM	50	51	51	45	32	24	29	39	37	36	33	37	45	33	45
	AVG MAX	87.1	88.7	84.7	80.4	69.4	58.9	57.5	64.4	68.8	73.4	75.7	83.8	86.1	83.2	83.2
	AVG MIN	55.8	56.4	57.1	49.6	47.3	37.0	35.2	46.6	44.5	43.3	46.3	49.0	51.0	53.9	53.5
	AVERAGE	71.4	72.6	70.9	65.0	58.4	48.0	46.4	55.5	56.7	58.4	61.0	66.4	68.6	68.6	68.4
LEXINGTON RESERVOIR	MAXIMUM	100	101	100	91	88	74	72	76	82	81	88	99	99	103	98
	MINIMUM	43	33	30	33	31	25	20	32	23	32	33	37	42	45	33
	AVG MAX	89.7	91.1	87.0	80.7	69.6	57.7	56.8	63.3	66.0	69.9	73.6	84.7	88.5	83.6	84.8
	AVG MIN	52.0	48.8	48.0	46.6	43.4	33.3	33.6	42.3	40.3	40.0	42.3	48.1	49.9	50.8	50.6
	AVERAGE	70.8	70.0	67.5	63.6	56.5	45.5	45.2	52.8	53.2	55.0	58.0	66.4	69.2	67.2	67.7
LOS GATOS	MAXIMUM	100	98	97	90	85	73	72	76	84	83	89	98	97	101	97
	MINIMUM	48	50	49	43	34	27	26	35	35	35	38	41	49	48	43
	AVG MAX	87.2	88.6	84.9	79.5	68.5	58.3	57.1	64.5	68.0	72.6	73.6	84.1	85.4	82.6	82.6
	AVG MIN	54.6	55.3	55.2	48.2	46.2	36.9	35.0	46.6	42.8	42.3	45.7	51.7	54.1	54.7	53.1
	AVERAGE	70.9	72.0	70.1	63.9	57.4	47.6	46.1	55.6	55.4	57.5	59.7	67.9	69.8	68.7	67.9
BAYSIDE-SAN MATEO E7																
SAN FRANCISCO WB AIRPORT	MAXIMUM	87	80	92	86	85	72	71	72	76	79	72	85	88	98	91
	MINIMUM	50	51	55	46	40	31	32	38	40	39	40	46	49	52	48
	AVG MAX	71.9	71.7	75.1	74.4	66.3	56.3	54.7	60.5	62.8	64.4	64.5	71.3	71.1	73.5	73.6
	AVG MIN	53.5	53.9	57.6	52.5	49.2	39.8	38.2	48.5	46.2	45.4	48.0	51.3	52.6	56.0	54.7
	AVERAGE	62.7	62.8	66.4	63.5	57.8	48.1	46.5	54.5	54.5	54.9	56.3	61.3	61.9	64.8	64.2
SAN FRANCISCO FOB	MAXIMUM	78	72	87	86	83	74	74	73	77	78	72	77	79	96	89
	MINIMUM	50	51	56	55	46	37	36	46	48	45	47	50	49	54	49
	AVG MAX	63.9	63.8	69.3	72.5	65.0	57.1	55.3	61.0	62.1	62.8	60.8	64.5	63.0	67.6	69.3
	AVG MIN	53.8	54.5	57.7	58.5	54.9	46.6	44.2	52.3	51.3	49.6	50.5	53.4	52.9	56.9	56.8
	AVERAGE	58.9	59.2	63.5	65.5	60.0	51.9	49.8	56.7	56.7	56.2	55.7	59.0	58.0	62.3	63.1
SAN MATEO	MAXIMUM	94	87	98	89	89	78	78	79	83	86	82	91	95	103	95
	MINIMUM	48	49	51	41	44	33	30	37	39	39	41	46	49	51	43
	AVG MAX	77.8	79.1	81.0	78.7	68.8	60.1	58.5	64.7	67.3	71.0	68.3	76.5	77.2	78.2	79.1
	AVG MIN	52.5	54.1	57.3	51.2	51.3	41.3	40.3	49.4	46.9	45.9	49.8	54.0	55.1	58.1	55.1
	AVERAGE	65.2	66.6	69.2	65.0	60.1	50.7	49.4	57.1	57.1	58.5	59.1	65.3	66.2	68.2	67.1
COAST-SAN MATEO E8																
HALF MOON BAY	MAXIMUM	71	71	78	87	85	74	73	72	79	74	69	69	70	94	85
	MINIMUM	48	50	50	43	40	35	36	40	41	37	39	39	48	46	41
	AVG MAX	63.5	63.4	68.1	70.1	65.2	57.5	58.5	58.9	61.7	62.0	60.6	61.6	62.7	66.8	68.2
	AVG MIN	53.7	53.6	55.1	50.5	49.7	43.0	45.2	49.6	46.1	43.7	48.3	50.7	52.7	53.8	50.2
	AVERAGE	58.6	58.5	61.6	60.3	57.5	50.3	51.9	54.3	53.9	52.9	54.5	56.2	57.7	60.3	59.2
SAN FRANCISCO SUNSET	MAXIMUM	70	70	79	92	83	70	72	75	74	78	65	68	69	95	82
	MINIMUM	51	47	54	46	42	34	--	--	38	40	41	45	48	53	46
	AVG MAX	63.0	62.8	68.0	70.8	65.2	59.1	56.6	61.5	60.8	61.0	59.7	61.8	61.7	66.9	67.6
	AVG MIN	56.8	55.1	56.4	53.1	54.3	45.0	--	--	46.5	45.8	48.4	50.8	51.4	56.2	54.1
	AVERAGE	59.9	59.0	62.2	62.0	59.8	52.1	--	--	53.7	53.4	54.1	56.3	56.6	61.6	60.9
SAN GREGORIO 2 SE	MAXIMUM	77	74	89	91	88	75	78	76	76	78	72	80	82	94	87
	MINIMUM	40	43	44	39	34	28	27	39	34	32	36	37	41	42	37
	AVG MAX	68.2	69.4	73.1	73.2	67.5	58.9	59.0	62.1	63.0	62.3	62.8	67.8	67.9	71.9	72.3
	AVG MIN	49.4	49.9	50.7	44.8	44.6	38.4	37.6	47.4	42.9	40.6	45.1	47.8	50.4	52.0	48.8
	AVERAGE	58.8	59.7	61.9	59.0	56.1	48.7	48.3	54.8	53.0	51.5	54.0	57.8	59.2	62.0	60.6
NORTH COASTAL AREA																
MENDOCINO COAST F8																
BOONVILLE HMS	MAXIMUM	--	107	106												
	MINIMUM	--	42	45												
	AVG MAX	--	94.3	91.4	RE											
	AVG MIN	--	50.2	49.7												
	AVERAGE	--	72.2	70.6												
FORT BRAGG	MAXIMUM	68	70	78	84	72	67	74	70	73	68	66	68	68	79	72
	MINIMUM	40	38	48	43	38	26	32	38	35	32	35	43	46	47	38
	AVG MAX	62.6	62.0	66.8	66.4	63.8	54.9	55.2	58.5	59.7	57.4	59.8	62.4	62.5	66.4	65.1
	AVG MIN	48.1	48.1	51.8	48.4	47.3	36.5	38.7	47.1	43.6	42.0	45.6	48.3	49.2	53.4	50.4
	AVERAGE	55.4	55.1	59.3	57.4	55.6	45.7	47.0	52.8	51.7	49.7	52.7	55.4	55.9	59.9	57.8

TABLE A-3 (Cont.)
TEMPERATURE DATA

Temperature in Degrees Fahrenheit

Station Name		1967						1968								
		July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
NORTH COASTAL AREA																
MENDOCINO COAST F8																
FORT BRAGG AVIATION	MAXIMUM	66	68	85	80	69	66	69	67	72	62	66	69	70	79	71
	MINIMUM	41	--	44	41	34	27	28	36	34	32	36	41	--	42	40
	AVG MAX	62.4	--	67.0	66.0	61.6	56.1	55.0	58.6	59.5	57.8	60.6	62.6	63.1	67.3	65.7
	AVG MIN	45.3	--	49.6	45.6	45.6	36.6	36.6	46.4	42.3	41.2	44.3	46.4	46.8	51.8	49.7
	AVERAGE	53.9	--	58.3	55.8	53.6	46.4	45.8	52.5	50.9	49.5	52.5	54.5	55.0	59.6	57.7
FORT ROSS	MAXIMUM	74	74	84	86	75	67	66	71	71	76	69	73	73	85	85
	MINIMUM	43	45	46	42	39	29	33	40	38	36	36	42	44	45	42
	AVG MAX	65.2	64.4	69.1	69.7	62.6	56.2	55.5	58.8	60.6	60.4	61.0	65.1	65.3	68.8	69.0
	AVG MIN	47.2	49.2	51.7	48.8	48.4	39.5	40.3	48.3	44.1	41.7	44.0	47.5	47.7	51.7	51.0
	AVERAGE	56.2	56.8	60.4	59.3	55.5	47.9	47.9	53.6	52.4	51.1	52.5	56.3	56.5	60.3	60.0
POINT ARENA	MAXIMUM	75	74	89	84	79	68	75	70	69	77	69	68	74	91	77
	MINIMUM	47	47	48	41	40	29	31	38	37	35	38	42	46	47	42
	AVG MAX	63.8	65.0	71.3	68.3	63.8	56.9	55.3	58.2	58.7	60.2	62.7	63.8	65.9	71.5	68.2
	AVG MIN	49.6	49.3	52.1	49.6	47.1	38.1	40.3	46.6	44.1	41.3	47.0	49.1	49.6	53.2	51.2
	AVERAGE	56.7	57.2	61.7	59.0	55.5	47.5	47.8	52.4	51.4	50.8	54.9	56.5	57.8	62.4	59.7
RUSSIAN RIVER F9																
CLOVERDALE 3 SSE	MAXIMUM	103	105	102	90	94	80	82	78	85	89	89	104	103	104	103
	MINIMUM	46	46	48	45	35	26	23	34	38	39	37	44	46	48	47
	AVG MAX	92.9	94.0	88.8	82.1	71.5	59.0	56.2	62.1	66.6	74.8	75.3	87.0	90.9	85.2	87.0
	AVG MIN	53.5	52.1	53.5	50.6	46.3	34.3	33.6	45.5	43.2	44.0	47.3	52.2	51.6	54.4	53.3
	AVERAGE	73.2	73.1	71.2	66.4	58.9	46.7	44.9	53.8	54.9	59.4	61.3	69.6	71.3	69.8	70.2
COYOTE DAM	MAXIMUM	103	106	102	88	90	74	75	78	80	88	84	104	103	102	103
	MINIMUM	48	46	46	36	31	21	22	27	29	29	30	39	46	42	36
	AVG MAX	93.3	98.3	92.8	78.8	70.0	54.9	57.2	62.6	63.9	73.2	72.1	86.2	93.2	85.0	90.2
	AVG MIN	53.2	53.0	49.5	42.1	40.2	28.8	27.9	40.1	37.3	36.0	37.3	45.7	50.0	48.4	48.1
	AVERAGE	73.2	75.6	71.2	60.4	55.1	41.9	42.6	51.4	50.6	54.6	54.7	65.9	71.6	66.7	69.2
GRATON	MAXIMUM	100	96	103	92	92	80	77	76	82	90	97	103	105	105	105
	MINIMUM	44	45	47	38	32	26	25	33	32	32	33	40	42	43	43
	AVG MAX	86.1	86.1	86.9	82.5	68.2	57.2	54.2	60.9	65.8	74.2	76.5	85.8	84.3	84.3	82.6
	AVG MIN	50.7	50.0	52.7	45.4	44.1	33.7	34.2	46.6	41.1	39.7	43.9	49.0	49.8	49.8	52.8
	AVERAGE	68.4	68.1	69.8	64.0	56.2	45.4	44.2	53.8	53.5	57.0	60.2	67.4	67.1	67.1	67.7
GRATON 1 W	MAXIMUM	97	96	100	89	90	78	76	76	80	86	93	100	--	103	101
	MINIMUM	41	42	44	37	30	20	24	30	32	30	33	39	43	42	37
	AVG MAX	84.0	84.0	84.6	80.5	67.9	57.6	55.4	61.2	65.0	72.6	73.8	84.3	--	82.5	84.6
	AVG MIN	48.1	47.0	49.8	43.7	42.9	33.1	33.5	44.6	40.9	37.4	42.7	46.3	--	49.7	46.7
	AVERAGE	66.1	65.5	67.2	62.1	55.4	45.4	44.5	52.9	53.0	55.0	58.3	65.3	--	66.1	65.7
HEALDSBURG	MAXIMUM	104	105	103	93	96	83	82	80	87	92	93	101	104	108	105
	MINIMUM	47	48	50	44	35	26	26	36	35	39	39	47	48	48	46
	AVG MAX	91.8	93.0	90.0	84.0	71.0	60.4	56.7	65.0	69.5	76.9	78.4	88.9	91.0	86.6	87.9
	AVG MIN	52.6	51.9	54.8	49.3	45.4	35.9	36.1	47.4	43.4	44.6	47.4	53.3	52.4	55.5	54.3
	AVERAGE	72.2	72.5	72.4	66.7	58.2	48.2	46.4	56.2	56.5	60.8	62.9	71.1	71.7	71.1	71.1
INVERNESS MERY	MAXIMUM	87	85	94	94	82	79	74	80	78	80					
	MINIMUM	46	42	48	40	36	26	28	36	34	34					
	AVG MAX	71.8	75.1	74.4	72.9	65.9	58.1	57.3	64.0	64.1	66.0	RE				
	AVG MIN	51.0	50.6	54.4	47.9	46.6	36.8	36.5	47.2	42.3	40.9					
	AVERAGE	61.4	62.9	64.4	60.4	56.3	47.5	46.9	55.6	53.2	53.5					
KNIGHTS VALLEY	MAXIMUM	98	102	99	--	90	83	82	72	--	--	--	--	--	--	99
	MINIMUM	42	39	41	--	27	20	20	30	--	--	--	--	--	--	32
	AVG MAX	91.6	92.0	87.3	--	68.6	59.1	57.2	63.1	--	--	--	--	--	--	87.3
	AVG MIN	50.5	46.7	48.9	--	39.4	31.4	29.9	41.8	--	--	--	--	--	--	44.7
	AVERAGE	71.1	69.4	68.1	--	54.0	45.3	43.6	52.5	--	--	--	--	--	--	66.0
POTTER VALLEY POWERHOUSE	MAXIMUM	101	105	103	89	90	78	82	80	84	90	87	104	104	103	100
	MINIMUM	47	46	45	35	26	19	16	27	26	28	32	39	46	41	37
	AVG MAX	--	--	--	79.2	70.5	57.5	58.3	64.6	68.4	76.3	77.0	89.2	95.6	87.0	90.4
	AVG MIN	--	--	--	41.9	37.5	25.7	27.8	39.3	36.6	36.8	41.8	48.1	52.6	51.9	48.4
	AVERAGE	--	--	--	60.6	54.0	41.6	43.1	52.0	52.5	56.6	59.4	68.7	74.1	69.5	69.4
SANTA ROSA SEWAGE PLANT	MAXIMUM	94	95	100	91	94	81	70	75	81	88	89	100	100	103	98
	MINIMUM	45	42	36	36	30	25	23	32	32	34	29	44	45	47	43
	AVG MAX	80.3	82.0	82.4	80.8	68.8	58.2	55.0	61.8	64.6	71.3	71.9	81.6	82.1	79.4	82.2
	AVG MIN	49.9	49.7	51.3	44.0	42.5	31.1	32.3	44.7	41.0	40.9	44.6	48.7	49.8	52.6	50.5
	AVERAGE	65.1	65.8	66.8	62.4	55.7	44.6	43.7	48.6	52.8	56.1	58.3	65.2	66.0	66.0	66.4
SANTA ROSA	MAXIMUM	97	100	100	91	92	83	74	78	84	88	92	100	101	104	101
	MINIMUM	45	47	48	41	33	27	23	32	33	35	37	45	46	47	42
	AVG MAX	85.7	88.1	87.0	82.9	70.3	59.7	56.6	64.7	68.8	74.5	75.6	84.7	86.8	83.1	84.9
	AVG MIN	50.9	50.6	53.3	46.2	44.3	34.7	34.5	46.7	41.7	41.7	45.3	50.3	50.7	54.0	51.8
	AVERAGE	68.3	69.4	70.2	64.6	57.3	47.2	45.6	55.7	55.3	58.1	60.5	67.5	68.8	68.6	68.4
UKIAH	MAXIMUM	104	109	105	90	92	79	76	80	86	90	93	106	107	107	103
	MINIMUM	50	50	49	37	30	24	24	35	31	32	35	44	50	45	40
	AVG MAX	94.8	99.3	92.1	79.5	69.0	58.0	56.5	64.8	67.6	75.0	75.5	87.3	94.4	87.3	89.6
	AVG MIN	56.1	55.8	53.8	45.5	42.5	32.3	33.9	44.6	40.6	39.9	45.1	52.1	55.1	54.1	51.6
	AVERAGE	75.5	77.6	73.0	62.5	55.8	45.2	45.2	54.7	54.1	57.5	60.3	69.7	74.8	70.7	70.6

TABLE A-3 (Cont.)
TEMPERATURE DATA

Temperature in Degrees Fahrenheit

Station Name		1967						1968								
		July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
NORTH COASTAL AREA																
RUSSIAN RIVER F9																
WOODACRE	MAXIMUM	97	101	94	86	88	77	68	72	81	86	82	95	99	101	97
	MINIMUM	42	42	45	35	29	26	21	33	29	30	32	36	42	44	32
	AVG MAX	83.8	87.1	82.3	77.0	65.1	55.8	52.8	61.4	64.6	70.5	68.9	74.8	82.9	78.5	79.7
	AVG MIN	49.7	49.4	51.2	43.2	42.2	34.0	33.7	44.9	40.0	39.0	44.0	47.3	49.3	51.8	48.7
	AVERAGE	66.8	68.8	66.8	60.1	53.6	44.9	43.3	53.2	52.3	54.8	56.4	61.5	66.1	65.2	64.2

TABLE A-4

EVAPORATION DATA

The definition of terms and the abbreviations used in connection with Table A-4 are as follows:

EVAP	The total amount of water evaporated from the pan in inches for the month.
WIND	The amount of movement of air over the pan in miles for the month.
AVG MAX	The arithmetic average of daily maximum water temperatures in degrees Fahrenheit for the month.
AVG MIN	The arithmetic average of daily minimum water temperatures in degrees Fahrenheit for the month.
	Record incomplete.
RB	Record began.
RE	Record ended.

TABLE A-4 (Cont.)

EVAPORATION DATA

Evappration in Inches
Wind in Total Miles
Water Temperature in Degrees Fahrenheit

Station Name		Total July 1 to June 30	1967						1968									Total Oct 1 to Sept 30
			July	Aug	Sept	Oct	Nov	Dec	Jan.	Feb.	Mar	Apr	May	June	July	Aug	Sept	
CENTRAL COASTAL AREA																		
LOWER SALINAS RIVER D2																		
SALINAS DE DAMPIERRE	EVAP	--	6.64	6.03	5.13	7.37	RE											
	WIND	--	3150	2949	2314	3315	RE											
SOLEDAD CTF	EVAP	64.66	8.87	6.11	6.11	5.86	3.02	2.32	2.54	2.34	4.47	6.21	7.97	8.84	--	7.74	7.14	--
	WIND	56960	5225	4538	3869	3783	3610	3914	4571	3763	4765	5698	6572	6652	--	4942	4522	--
	AVG MAX	--	--	--	--	--	--	--	58.0	65.4	67.9	71.0	74.2	77.6	--	78.3	71.4	--
	AVG MIN	--	--	--	--	--	--	--	38.1	48.2	44.3	45.3	48.2	51.7	--	53.9	49.8	--
UPPER SALINAS RIVER D3																		
NACIMIENTO DAM	EVAP	72.31	11.25	10.77	7.37	5.48	2.54	1.36	1.71	1.83	4.35	6.57	8.36	10.72	11.76	10.33	8.05	73.06
SAN FRANCISCO BAY AREA																		
NAPA-SOLANO E3																		
DUTTONS LANDING	EVAP	64.78	9.43	7.95	6.32	4.64	2.02	1.99	2.29	1.51	3.49	6.50	8.44	10.20	9.09	7.97	7.27	65.41
	WIND	25886	2285	881	2040	1565	1183	2567	1774	1525	1771	2402	4123	3770	--	3091	2849	--
	AVG MAX	--	84.6	84.6	84.1	80.4	69.9	--	--	--	--	81.7	79.1	84.6	85.6	83.4	83.5	--
	AVG MIN	--	56.3	55.9	56.5	51.3	48.3	--	--	--	--	50.3	50.2	54.7	56.9	57.9	57.5	--
YOUNTVILLE GAMBLE	EVAP	62.14	9.15	7.23	7.84	4.36	2.55	2.92	1.70	1.60	5.26	5.74	6.28	7.51	10.18	7.00	6.94	62.04
	WIND	28944	2448	2366	2175	1882	2229	3548	2040	1805	2481	2704	2571	2695	3109	2621	2451	30136
ALAMEDA CREEK E5																		
LIVERMORE SEWAGE PLANT	EVAP	81.74	11.46	11.67	8.91	6.38	3.40	2.94	1.92	2.05	4.27	7.79	8.62	12.33	12.53	10.90	9.23	82.36
	WIND	33920	1880	2090	2270	2350	2240	3500	2630	1980	2650	3180	4210	3940	4290	3950	3350	38270
NEWARK	EVAP	67.49	9.69	8.22	6.76	5.18	2.75	2.25	1.62	1.63	4.20	7.16	7.99	10.04	9.74	8.38	7.22	68.16
	WIND	36759	3128	2702	2509	2612	2310	2774	3166	2101	3409	3946	4265	3837	3623	3739	3247	39029
SANTA CLARA VALLEY E6																		
ALAMITOS PERCOLATION POND	EVAP	60.82	9.48	8.25	6.23	4.35	2.23	1.97	1.48	1.32	3.84	5.60	7.08	8.99	9.02	7.71	6.52	60.11
	WIND	11736	968	823	780	859	689	1114	1003	736	1235	1283	1142	1104	899	973	934	11971
LEROY ANDERSON DAM	EVAP	69.74	10.64	9.53	7.56	4.51	3.02	2.16	1.54	1.61	4.31	6.70	7.62	10.54	10.44	8.53	7.89	68.87
	WIND	20256	1696	1492	1516	1689	1333	1972	1404	1026	1857	2172	2014	2085	1742	1810	1795	20899
LEXINGTON RESERVOIR	EVAP	55.30	8.28	7.91	5.71	3.99	2.21	1.81	1.42	1.47	3.59	5.17	5.61	8.13	8.63	7.26	6.23	55.32
	WIND	8269	636	507	483	419	598	1061	982	667	910	755	511	740	591	757	653	8644
BAYSIDE-SAN MATEO E7																		
BURLINGAME	EVAP	--	7.89	5.45	5.28	2.78	1.32	--	0.95	0.85	3.02	5.49	6.91	8.58	8.80	6.73	6.22	--
	WIND	--	--	671	738	696	550	1315	879	602	1005	1125	2215	2609	2556	2090	1887	17529
	AVG MAX	--	89.3	87.7	85.7	74.4	64.5	55.0	--	57.0	66.1	77.4	78.8	82.1	83.3	81.9	80.7	--
	AVG MIN	--	60.6	59.7	61.0	55.4	52.9	42.4	--	46.4	45.0	49.0	52.3	55.8	56.8	59.7	56.3	--
NORTH COASTAL AREA																		
RUSSIAN RIVER F9																		
COYOTE DAM	EVAP	71.95	12.23	11.28	8.64	4.33	2.05	1.75	1.47	1.67	3.23	6.70	7.43	11.17	13.58	8.36	8.09	69.83
	WIND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1684	1604	--
	AVG MAX	--	97.0	97.0	91.9	78.7	64.0	50.1	50.4	61.3	65.0	75.0	78.8	--	89.5	82.4	83.5	--
	AVG MIN	--	54.9	53.1	49.0	44.6	46.4	35.6	37.2	45.7	43.0	44.9	47.9	--	55.5	52.9	52.5	--
GEYSERVILLE HOCKING	EVAP	53.59	7.99	6.04	4.66	5.09	2.79	1.64	1.08	1.37	2.81	4.94	6.95	8.59	6.80	5.64	5.50	53.20
	WIND	25987	1906	1746	1892	2066	1471	1999	1998	1450	1642	2487	3461	3869	2961	2451	--	--
KNIGHTS VALLEY	EVAP	--	6.90	7.62	5.31	4.82	3.18	3.11	1.26	3.05	--	5.44	5.61	--	--	--	4.82	--
	WIND	--	--	--	666	623	456	1417	812	--	--	1169	995	--	--	--	--	--
	AVG MAX	--	96.5	93.1	87.3	76.7	65.0	54.8	52.2	63.5	--	79.3	--	--	--	--	--	--
	AVG MIN	--	63.2	58.9	58.2	50.5	46.4	40.3	38.9	43.5	--	46.7	--	--	--	--	--	--
SANTA ROSA SEWAGE PLANT	EVAP	62.92	8.51	7.89	6.31	5.04	2.35	2.16	1.38	1.37	3.69	6.37	7.41	10.40	9.36	7.19	7.49	64.25
	WIND	24355	2736	2574	2213	1503	1155	2064	1599	1105	1654	2293	2738	2721	2840	2714	2167	24553

Appendix B

SURFACE WATER MEASUREMENTS

INTRODUCTION

In this appendix, surface water data are presented for the period October 1, 1967, through September 30, 1968. These data consist of imported water to the report area, daily mean gage heights, and daily maximum and minimum tides. Data station locations are shown on Figure D-1, pages 64, 65, 66, and 67.

The station numbering system is that which is shown in the departmental publication "Index of Stream Gaging Stations in and Adjacent to California", 1966.

TABLE B-1

SURFACE WATER IMPORTS TO THE CENTRAL COASTAL AREA

IMPORT	1968 Water Year												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
CITY OF VALLEJO FROM CACHE SLOUGH a													
Total acre-feet	927	645	478	575	352	718	1268	1456	1454	1488	1506	1367	12234
Average cubic feet per second	15	11	8	9	6	12	21	24	24	24	24	23	17
Monthly quantities in percent of seasonal	7.5	5.3	3.9	4.7	2.8	5.9	10.4	11.9	11.9	12.2	12.3	11.2	
CONTRA COSTA CANAL b *													
Total acre-feet	6228	5462	4869	5602	3466	3158	7752	9754	13318	13778	11925	11030	96342
Average cubic feet per second	101	92	79	91	60	51	130	159	224	224	194	185	133
Monthly quantities in percent of seasonal	6.5	5.7	5.1	5.8	3.6	3.3	8.0	10.1	13.8	14.3	12.4	11.4	
HETCH HETCHY AQUEDUCT c													
Total acre-feet	9451	4289	18822	1480	1389	14334	25341	26396	20975	21070	20412	19511	183470
Average cubic feet per second	154	72	306	24	24	233	426	429	352	343	332	328	253
Monthly quantities in percent of seasonal	5.2	2.3	10.3	0.8	0.8	7.8	13.8	14.4	11.4	11.5	11.1	10.6	
MOKELUMNE RIVER AQUEDUCT d													
Total acre-feet	6636	17011	17642	17460	15701	17782	18026	18789	18402	21437	22044	21156	212086
Average cubic feet per second	108	286	287	284	273	289	303	306	309	349	358	356	292
Monthly quantities in percent of seasonal	3.1	8.0	8.3	8.2	7.4	8.4	8.5	8.9	8.7	10.4	10.4	10.0	
POTTER VALLEY POWERHOUSE FROM EEL RIVER e													
Total acre-feet	16320	10580	17950	18710	17480	18580	11450	4530	6600	12990	13030	12650	160870
Average cubic feet per second	265	178	292	304	304	302	192	74	111	211	212	213	222
Monthly quantities in percent of seasonal	10.1	6.6	11.2	11.6	10.9	11.5	7.1	2.8	4.1	8.1	8.1	7.9	
PUTAH SOUTH CANAL b **													
Total acre-feet	26651	8471	200	627	627	2553	15592	30228	31182	36422	34596	33388	220537
Average cubic feet per second	433	142	3	10	11	42	262	492	524	592	563	561	304
Monthly quantities in percent of seasonal	12.1	3.8	0.1	0.3	0.3	1.2	7.1	13.7	14.1	16.5	15.7	15.1	
SOUTH BAY AQUEDUCT													
Total acre-feet	8169	5503	6645	7991	3539	6692	9667	18291	10814	11986	11792	9443	102532
Average cubic feet per second	133	92	108	130	62	109	162	167	182	195	192	159	141
Monthly quantities in percent of seasonal	8.0	5.4	6.5	7.8	3.5	6.5	9.4	10.0	10.5	11.7	11.5	9.2	

a Data furnished by City of Vallejo.

b Data furnished by U. S. Bureau of Reclamation.

c Data furnished by the City of San Francisco.

d Data furnished by East Bay Municipal Utility District.

e Data furnished by U. S. Geological Survey.

* A portion of this water is delivered to the Central Coastal Area by the Contra Costa County Water District.

** A portion of this water is delivered to the Central Coastal Area by the Solano Irrigation District.

TABLE B- 2

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1968	E31400	RECTOR RESERVOIR NEAR YOUNTVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	355.52	354.10	354.40	355.83	370.45	370.35	370.28	370.06	367.08	363.10	NR	NR	1
2	355.46	354.08	354.40	355.83	370.49	370.35	370.28	370.06	366.92	363.93	NR	NR	2
3	355.40	354.06	354.57	355.83	370.49	370.35	370.27	369.96	366.77	362.80	NR	354.80	3
4	355.41	354.05	354.66	355.87	370.47	370.33	370.27	369.96	366.66	362.69	NR	354.70	4
5	355.43	354.05	354.92	355.88	370.44	370.33	370.27	369.96	366.53	362.55	NR	354.60	5
6	355.43	354.05	354.98	355.91	370.44	370.33	370.22	369.96	366.42	362.43	NR	354.48	6
7	355.37	354.06	355.17	355.95	370.44	370.36	370.20	369.89	366.28	362.42	NR	354.35	7
8	355.26	354.07	355.25	355.99	370.45	370.36	370.18	369.76	366.16	362.21	NR	354.24	8
9	355.13	354.08	355.31	356.05	370.45	370.35	370.16	369.65	366.04	362.05	NR	354.12	9
10	355.11	354.06	355.32	356.70	370.43	370.32	370.14	369.55	365.92	361.91	NR	354.00	10
11	355.11	354.07	355.36	357.02	370.42	370.32	370.13	369.44	365.76	361.75	NR	353.85	11
12	355.11	354.07	355.34	358.20	370.41	370.60	370.13	369.34	365.65	361.62	NR	353.74	12
13	355.10	354.08	355.33	358.33	370.40	370.48	370.10	369.24	365.52	361.52	NR	353.63	13
14	354.97	354.10	355.31	358.73	370.37	370.50	370.08	369.17	365.38	361.39	NR	353.51	14
15	354.79	354.11	355.31	359.73	370.36	370.49	370.07	369.07	365.23	361.24	NR	353.36	15
16	354.68	354.11	355.32	360.16	370.45	370.60	370.06	368.99	365.12	361.12	NR	353.19	16
17	354.66	354.12	355.36	360.45	370.47	370.51	370.06	368.89	364.96	360.91	NR	353.05	17
18	354.51	354.13	355.50	360.67	370.42	370.41	370.04	368.80	364.85	360.78	NR	352.96	18
19	354.48	354.16	355.52	360.82	370.62	370.38	370.04	368.65	364.73	360.66	NR	352.85	19
20	354.48	354.18	355.55	360.96	370.52	370.37	370.02	368.56	364.71	360.53	NR	352.70	20
21	354.46	354.21	355.59	361.09	370.57	370.35	370.00	368.49	364.47	360.37	NR	352.57	21
22	354.46	354.22	355.62	361.20	370.57	370.33	369.99	368.30	364.30	360.26	NR	352.45	22
23	354.46	354.21	355.63	361.28	370.41	370.33	369.99	368.20	364.19	360.14	NR	352.32	23
24	354.34	354.21	355.68	361.36	370.36	370.32	369.98	368.08	364.07	359.98	NR	352.19	24
25	354.21	354.22	355.72	361.44	370.34	370.31	369.97	367.98	363.91	359.86	NR	352.06	25
26	354.20	354.24	355.74	361.52	370.33	370.30	369.99	367.88	363.77	359.03	NR	351.81	26
27	354.18	NR	355.75	361.59	370.32	370.30	370.01	367.78	363.68	359.60	NR	351.66	27
28	354.18	NR	355.77	361.68	370.32	370.29	370.01	367.68	363.51	359.47	NR	351.54	28
29	354.17	NR	355.79	371.42	370.33	370.28	370.01	367.56	363.37	359.35	NR	351.44	29
30	354.16	NR	355.79	370.62		370.28	370.02	367.43	363.21	359.21	NR	351.31	30
31	354.14		355.81	370.52		370.28		367.31		359.09	NR		31

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-30-68	0100	371.44									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 26 24	122 20 36	SE 19 7N 4W					MAY 1948-DATE	5-48		0.00	USCGS

Rector Reservoir is located on Rector Creek about 3 miles northeast of Yountville. Gaging station is located on the outlet tower of the reservoir. Elevation of reservoir floor is 250 feet. Spillway elevation is 370 feet.

TABLE B-3

DAILY MAXIMUM AND MINIMUM TIDES

SACRAMENTO RIVER AT COLLINSVILLE

in feet

STATION NO	WATER YEAR
B91110	1968

DATE	OCT.	NOV	DEC	JAN.	FEB.	MAR.	APR	MAY	JUNE	JULY	AUG	SEP	DATE
1	6.13 1.75	6.07 1.61	6.67 1.28	6.58 1.30	5.58 2.76	NR NR	6.17 2.27	5.87 1.34	5.62 1.19	5.31 1.52	5.94 2.28	6.49 1.92	1
2	6.04 1.83	6.50 1.62	6.67 1.34	6.27 1.30	5.39 1.59	NR NR	5.85 1.76	5.72 1.30	5.19 1.19	5.29 1.66	6.23 2.04	6.48 1.90	2
3	6.02 1.19	6.75 1.71	7.13 1.69	5.67 3.07 E	5.47 1.90	NR NR	5.34 1.33	5.78 1.54	4.93 1.18	5.55 1.76	6.46 1.84	5.10 1.80	3
4	6.00 1.83	6.84 3.46	6.94 3.87	5.02 1.11 E	5.38 2.00	NR NR	5.12 1.28	5.47 1.42	5.48 1.53	5.89 2.13	6.63 1.68	6.55 1.94	4
5	6.09 1.54	6.58 1.68	6.21 2.16	5.00 1.14 E	5.40 2.28	NR NR	5.08 1.42	5.01 1.45	5.52 1.92	6.44 1.89	6.67 1.59	6.33 1.81	5
6	6.14 2.38	6.10 1.47	5.63 1.33	4.98 1.37	5.64 2.26	NR NR	4.62 0.95	4.86 1.04	5.76 1.93	6.85 2.05	4.75 1.53	6.17 1.95	6
7	6.17 1.41	6.02 1.25	5.68 1.57	5.02 1.49	5.86 2.09	NR NR	4.64 0.94	4.68 1.32	4.30 1.60	6.97 1.96	6.64 1.62	5.91 1.99	7
8	6.14 1.38	5.35 1.56	5.14 1.43	5.14 1.67	6.06 1.99	5.93 2.25	4.97 1.02	5.24 1.97	6.06 1.46	6.97 1.82	6.58 1.76	5.61 2.10	8
9	6.00 1.33	5.10 1.32	5.12 1.37	5.59 1.82	6.17 1.82	5.52 1.56	5.08 1.06	5.62 2.13	6.48 1.39	7.05 1.69	6.38 1.72	5.56 2.24	9
10	5.63 1.44	5.15 1.36	5.24 1.67	6.77 2.10	6.34 1.75	5.37 1.25	5.22 1.40	5.83 1.82	6.61 1.28	6.90 1.59	6.08 1.81	5.63 2.38	10
11	5.39 1.24	5.11 1.42	5.57 1.83	5.97 1.42	6.43 1.70	5.65 1.27	5.30 1.76	6.09 1.68	6.74 1.28	6.64 1.48	5.64 1.85	5.67 2.17	11
12	5.30 1.23	5.40 1.83	5.35 1.30	6.02 1.42	6.55 1.78	6.40 1.99	5.79 1.98	6.32 1.35	6.53 1.08	6.34 1.46	5.47 2.04	5.78 2.07	12
13	5.03 1.35	5.50 1.89	5.00 0.52 E	6.25 1.35	6.60 1.85	6.29 1.94	5.97 1.61	6.72 1.45	6.24 0.92	6.14 1.62	5.52 2.14	5.92 2.13	13
14	5.23 1.38	5.80 1.82	5.00 0.60 E	6.38 1.60	6.34 1.76	6.03 1.84	6.08 1.32	6.50 1.03	5.94 1.02	5.72 1.64	5.62 2.36	5.74 2.03	14
15	5.21 1.58	5.84 1.67	6.53 1.50	6.76 1.71	6.10 1.87	5.66 1.92	6.26 1.45	6.33 0.97	5.65 1.09	5.40 1.65	5.75 2.19	5.53 1.76	15
16	5.13 1.68	5.97 1.61	6.45 1.31	6.60 1.62	6.12 2.21	6.03 2.42	6.44 1.23	6.20 1.11	5.21 1.29	5.47 1.89	6.16 2.08	5.46 1.44	16
17	5.34 1.77	6.18 1.64	6.52 1.83	6.15 1.42	6.08 2.35	6.34 2.08	5.90 0.82	5.90 1.08	5.34 1.57	5.53 2.19	5.94 1.98	5.90 1.44	17
18	5.55 1.73	6.21 1.65	6.86 1.75	5.74 2.99	5.93 2.46	6.06 1.53	5.70 0.83	5.39 1.10	5.58 1.98	5.80 1.98	6.03 1.77	5.15 1.97	18
19	5.67 1.64	6.40 1.61	6.60 1.57	5.38 1.36	6.02 2.34	5.97 1.28	5.56 0.88	5.10 1.25	5.78 2.43	6.05 1.90	6.26 1.76	6.06 1.95	19
20	5.75 1.68	6.00 3.97	6.02 3.76	5.20 1.43	6.46 2.24	5.84 1.14	5.18 0.96	5.24 1.33	5.74 2.05	6.18 1.84	6.20 1.73	5.97 1.82	20
21	5.89 3.37	6.22 1.44	5.10 1.17 E	5.50 1.61	6.80 2.26	5.59 0.95	4.78 0.83	5.39 1.82	5.83 1.64	6.27 1.78	4.70 1.61	5.52 1.55	21
22	5.72 1.62	5.82 1.52	5.40 0.60 E	5.77 1.96	6.48 1.96	5.43 1.11	4.61 0.90	4.38 2.02	4.30 1.46	6.38 1.75	5.98 1.43	5.37 1.66	22
23	5.58 1.49	5.44 1.50	4.65 0.60 E	5.93 1.65	6.43 1.88	5.46 1.15	4.64 1.24	5.54 1.76	6.07 1.52	6.38 1.73	5.92 1.47	5.40 1.75	23
24	5.41 1.35	5.03 1.35	4.98 0.88 E	6.20 1.63	NR NR	5.35 1.07	4.86 1.50	5.65 1.55	6.31 1.64	6.38 1.57	5.88 1.64	5.68 1.68	24
25	5.21 1.30	5.14 1.35	5.40 1.41	6.69 1.78	NR NR	5.58 1.43	5.03 1.48	5.68 1.29	6.44 1.76	6.35 1.59	5.75 1.72	6.03 2.49	25
26	5.14 1.29	5.32 1.54	5.94 1.69	6.98 1.90	NR NR	5.27 1.31	5.33 1.37	5.64 1.10	6.44 1.70	6.34 1.72	5.38 1.77	6.23 1.79	26
27	5.17 1.23	5.69 1.78	6.12 1.40	6.95 1.81	NR NR	5.10 1.44	5.57 1.36	5.85 1.22	6.35 1.56	6.28 1.80	5.52 1.96	6.30 1.84	27
28	5.20 1.40	6.00 1.77	6.58 1.49	6.79 1.78	NR NR	5.05 1.62	5.77 1.49	6.10 1.39	6.33 1.52	6.04 1.90	5.70 2.15	6.51 1.84	28
29	5.14 1.27	6.66 2.02	6.76 1.40	7.17 2.53	NR NR	5.23 1.68	5.82 1.40	6.12 1.35	5.87 1.15	5.63 1.77	5.92 1.98	6.48 2.12	29
30	5.20 1.36	7.00 1.87	6.85 1.40	6.72 1.92		5.53 1.80	5.93 1.46	6.03 1.25	5.52 1.22	5.60 2.07	6.35 1.83	5.99 1.85	30
31	5.54 1.56		6.63 1.27	6.20 1.65		5.80 1.97		5.92 1.30		5.71 2.16	6.49 2.10		31
MAXIMUM	6.17	7.00	7.13	7.17	NR	NR	6.44	6.72	6.74	7.05	6.67	6.55	MAXIMUM
MINIMUM	1.19	1.25	0.52 E	1.11 E	NR	NR	0.82	0.97	0.92	1.46	1.43	1.44	MINIMUM

E- Estimated
NR- No Record

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
38 04 25	121 51 18	SW 27 3N 1E		9.2	4-6-1958		JUNE 1929-DATE	1929		0.00	USED
								1929		-3.05	USCGS
									1964	-3.54	USCGS
								1964		-3.00	USCGS

Station located 0.4 mile southwest of Collinsville, 3.3 miles northeast of Pittsburg.

TABLE B-3 (Cont.)

DAILY MAXIMUM AND MINIMUM TIDES

SUISUN BAY AT BENICIA

in feet

STATION NO	WATER YEAR
E03300	1968

DATE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	DATE
1	3.40 -2.36	3.62 -2.64	4.17 -3.44	3.97 -3.11	2.83 -3.74	3.20 -1.42	3.45 -1.47	3.02 -2.60	2.71 -2.77	NR NR	3.20 -1.45	3.62 -2.27	1
2	3.30 -2.23	4.05 -2.76	4.11 -3.28	3.60 -3.11	2.60 -2.22	3.28 -1.10	3.07 -2.21	2.79 -2.61	2.31 -2.75	NR NR	3.47 -1.84	3.63 -2.36	2
3	3.35 -2.15	4.25 -2.80	4.55 -2.90	2.92 -3.18	2.70 -1.76	3.05 -1.38	2.49 -2.50	2.69 -2.45	2.13 -2.65	NR NR	3.65 -2.22	3.72 -2.41	3
4	3.48 -2.32	4.20 -2.86	4.34 -2.10	2.23 -2.88	2.60 -1.22	2.70 -1.35	2.28 -2.47	2.49 -2.46	2.65 -2.27	NR NR	3.77 -2.36	3.58 -2.38	4
5	3.60 -2.72	3.86 -2.93	3.39 -3.02	2.33 -2.43	2.52 -1.23	2.88 -1.31	2.15 -2.38	2.16 -2.50	NR NR	NR NR	3.95 -2.64	2.39 -2.53	5
6	3.60 -2.84	3.40 -2.94	2.83 -2.52	2.33 -1.01	2.67 -1.33	NR NR	1.84 -2.68	2.19 -2.72	NR NR	NR NR	4.03 -2.85	3.45 -2.34	6
7	3.60 -2.78	3.20 0.70	2.93 0.17	2.34 -1.90	2.81 -1.67	NR NR	1.82 -2.84	2.59 -2.39	NR NR	NR NR	2.20 -2.76	2.97 -2.36	7
8	3.45 -2.61	2.56 -2.50	2.39 -2.53	2.41 -1.79	3.04 -1.98	NR NR	2.19 -2.89	2.92 -1.92	NR NR	NR NR	3.91 -2.66	2.60 -2.18	8
9	3.15 0.50	2.39 -2.57	2.44 -2.28	2.70 -1.74	3.24 -2.29	NR NR	2.37 -2.92	3.16 -1.68	NR NR	NR NR	3.63 -2.71	2.66 -1.81	9
10	2.83 -2.61	2.50 -2.46	2.54 -1.78	3.81 -1.84	3.43 -2.49	NR NR	2.73 -2.58	3.50 -2.31	NR NR	NR NR	3.32 -2.57	2.78 -1.89	10
11	2.57 -2.75	2.58 -2.25	2.83 -1.95	3.09 -2.52	3.61 -2.60	NR NR	2.65 -2.13	3.81 -2.77	NR NR	NR NR	2.83 -2.33	2.74 -1.80	11
12	2.48 -2.73	2.84 -1.71	2.54 -2.71	3.20 -2.64	3.82 -2.61	NR NR	3.20 -2.03	3.81 -3.08	NR NR	3.69 -2.96	2.70 -1.86	2.76 -1.77	12
13	2.40 -2.61	2.93 -1.82	2.39 -3.44	3.45 -2.86	3.97 -2.59	NR NR	3.41 -2.61	4.13 -3.14	NR NR	3.38 -2.61	2.83 -1.44	2.69 0.35	13
14	2.50 -2.49	3.19 -2.01	2.42 -3.35	3.61 -2.70	3.80 -2.62	NR NR	3.54 -2.98	3.99 -3.58	NR NR	2.96 -2.33	2.87 -0.83	2.51 -1.79	14
15	2.47 -2.20	3.23 -2.26	3.72 -2.68	3.99 -2.70	3.48 -2.38	NR NR	3.73 -3.09	3.73 -3.57	NR NR	2.65 -2.12	2.91 -1.39	2.39 -2.15	15
16	2.55 -2.06	3.31 -2.40	3.64 -3.00	3.82 -2.89	3.60 -1.86	NR NR	3.71 -3.23	3.51 -3.30	NR NR	2.77 -1.68	3.18 -1.51	2.67 -2.43	16
17	2.74 -2.01	3.51 -2.48	3.68 -2.61	3.40 -3.04	3.53 -1.76	NR NR	3.26 -3.67	3.01 -3.18	NR NR	2.83 -1.25	2.95 -1.68	3.03 -2.29	17
18	2.93 -2.19	3.50 -2.48	4.00 -2.55	2.94 -3.01	3.30 -1.50	NR NR	2.92 -3.45	2.51 -2.97	NR NR	3.02 -1.55	3.14 -2.02	3.20 -1.99	18
19	3.00 -2.27	3.70 -2.42	3.73 -2.70	2.55 -2.81	3.37 -1.80	NR NR	2.77 -3.15	2.42 -2.65	NR NR	3.19 -1.73	3.37 -2.04	3.14 -2.06	19
20	3.07 -2.24	3.30 -2.54	3.21 -3.02	2.48 -2.40	3.63 -1.91	NR NR	2.36 -3.05	2.55 -2.46	NR NR	3.31 -1.96	3.46 -2.17	2.86 -2.22	20
21	3.05 -2.32	3.40 -2.33	2.37 -3.43	2.80 -1.80	3.86 -2.01	NR NR	2.02 -3.10	2.74 -1.80	NR NR	3.38 -2.13	3.30 -2.37	2.43 -2.38	21
22	2.85 -2.50	3.09 -2.33	1.70 -3.27	3.11 -1.80	3.48 -2.62	NR NR	2.04 -3.06	2.87 -1.66	NR NR	3.49 -2.36	3.26 -2.62	2.80 -2.21	22
23	2.79 -2.43	2.72 1.00	1.99 -0.83	3.24 -2.31	3.44 -2.92	NR NR	2.21 -2.63	2.92 -2.05	NR NR	3.53 -2.35	2.09 -2.64	2.95 -2.10	23
24	2.63 1.01	2.30 -2.40	2.35 -2.74	3.49 -2.45	3.53 -2.99	NR NR	2.43 -2.25	3.04 -2.42	NR NR	3.56 -2.56	3.26 -2.48	3.23 -2.23	24
25	2.37 -2.44	2.52 -2.28	2.83 -2.12	3.94 -2.40	3.54 -3.00	NR NR	2.72 -2.37	2.89 -2.76	NR NR	2.00 -2.54	3.11 -2.29	3.56 -2.19	25
26	2.34 -2.42	2.79 -2.15	3.33 -2.23	4.22 -2.53	3.62 -2.81	NR NR	2.99 -2.44	3.07 -3.06	NR NR	3.47 -2.54	2.74 -2.16	3.69 -2.24	26
27	2.30 -2.53	3.20 -1.87	3.51 -2.75	4.30 -2.70	3.69 -2.57	NR NR	3.07 -2.55	3.07 -2.96	NR NR	3.43 -2.41	2.88 -1.86	3.67 -2.17	27
28	2.40 -2.54	3.52 -2.17	3.95 -2.90	4.22 -2.63	3.60 -2.37	2.41 -2.34	3.00 -2.56	3.28 -2.85	NR NR	3.14 -2.30	3.18 -1.72	3.72 0.79	28
29	2.50 -2.66	4.22 -2.24	4.14 -3.17	4.63 -1.60	3.20 -2.08	2.61 -2.29	3.01 -2.73	3.28 -2.83	NR NR	2.76 -2.16	3.36 -0.78	3.54 -1.97	29
30	2.69 -2.56	4.62 -2.65	4.22 -3.30	4.11 -2.54		2.91 -2.21	3.02 -2.75	3.19 -2.87	NR NR	2.86 -1.89	3.61 -1.93	3.18 -2.19	30
31	3.05 -2.50		4.04 -3.26	3.49 -2.84		3.06 -2.18		2.95 -2.76		2.93 -1.61	3.56 -2.09		31
MAXIMUM	3.60	4.62	4.55	4.63	3.97	NR	3.73	4.13	NR	NR	4.03	3.72	MAXIMUM
MINIMUM	-2.84	-2.94	-3.44	-3.18	-3.00	NR	-3.67	-3.58	NR	NR	-2.85	-2.53	MINIMUM

E– Estimated
NR– No Record

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 02 26	122 08 13	SW 6 2N 2W		5.7	4-6-1958		JUN 29-APR 40	1929	1940	-2.21	USCGS
							APR 40-DATE	1940	1942	-5.00	USCGS
								1942		0.00	USCGS

Station located on inshore side of wharf, immediately southeast of Benicia. Maximum gage height listed does not indicate maximum discharge. Period of record intermittant from 1929 to 1940.

TABLE B-4

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS OF SURFACE WATER DATA

Location of Error or Revision					Change or Revision	
Report	Page	Mile & Bank	Name	Item	From	To
				1962		
Bulletin No. 23-62	394		Suisun Bay at Benicia Arsenal	Daily Maximum and Minimum Tides for the period 3-1-62 to 3-28-62, inclusive	Published values	2.00 feet lower thao published values
				Maximum for March 1962	16.72	14.72
				1963		
Bulletin No. 130-63	B-7		Suisun Bay at Benicia Arsenal	Maximum Gage Height of Record	6.72	5.7
				Date of Maximum Gage Height of Record	3-5-62	4-6-58
				1964		
Bulletin No. 130-64	48		Suisun Bay at Benicia Arsenal	Maximum Gage Height of Record	6.72	5.7
				Date of Maximum Gage Height of Record	3-5-62	4-6-58
Bulletin No. 130-64	52		City of Vallejo from Cache Slough	Total acre-feet	Publlshed values	Values published in Bulletin No. 130-66 Table B-2
				Average cubic feet per second	Published values	Values published in Bulletin No. 130-66 Table B-2
				Monthly quantities in percent of seasonal	Published values	Values published in Bulletin No. 130-66 Table B-2
				1967		
Bulletin No. 130-67	44		Sacramento River at Collinsville	Daily Maximum and Minimum Tides		Notation: In order to machine process the data it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain gage heights.
Bulletin No. 130-67	45		Suisun Bay at Benicia Arsnnal	Daily Maximum and Minimum Tides		Notation: In order to machine process the data it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain gage heights.

Appendix C

GROUND WATER MEASUREMENTS

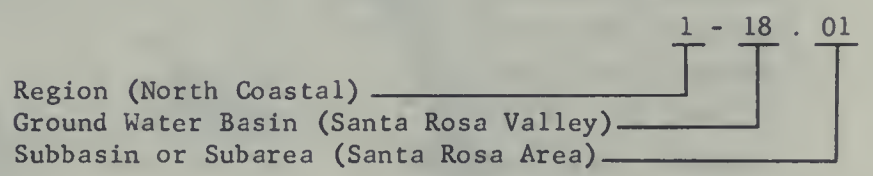
INTRODUCTION

This appendix contains ground water level measurements from 373 wells for the period October 1, 1967, through September 30, 1968. It contains tables which summarize the measurements and bar graphs of average depth to water in selected basins.

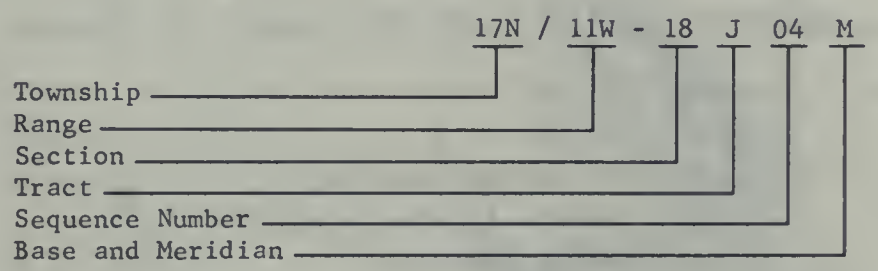
There are 33 ground water basins or areas in the Central Coastal Area for which data are reported. Wells are selected to reflect the ground water conditions of the area. These wells are continuously reviewed, and when conditions dictate, replacement wells are located and measured.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of Northern California covered by this report comprises the southern portion of North Coastal Region No. 1, the northern portion of Central Coastal Region No. 3, and all of San Francisco Bay Region No. 2. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and subbasins or subareas as follows:



The State Well Numbering System is based on township, range, and section subdivisions of the public land survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:

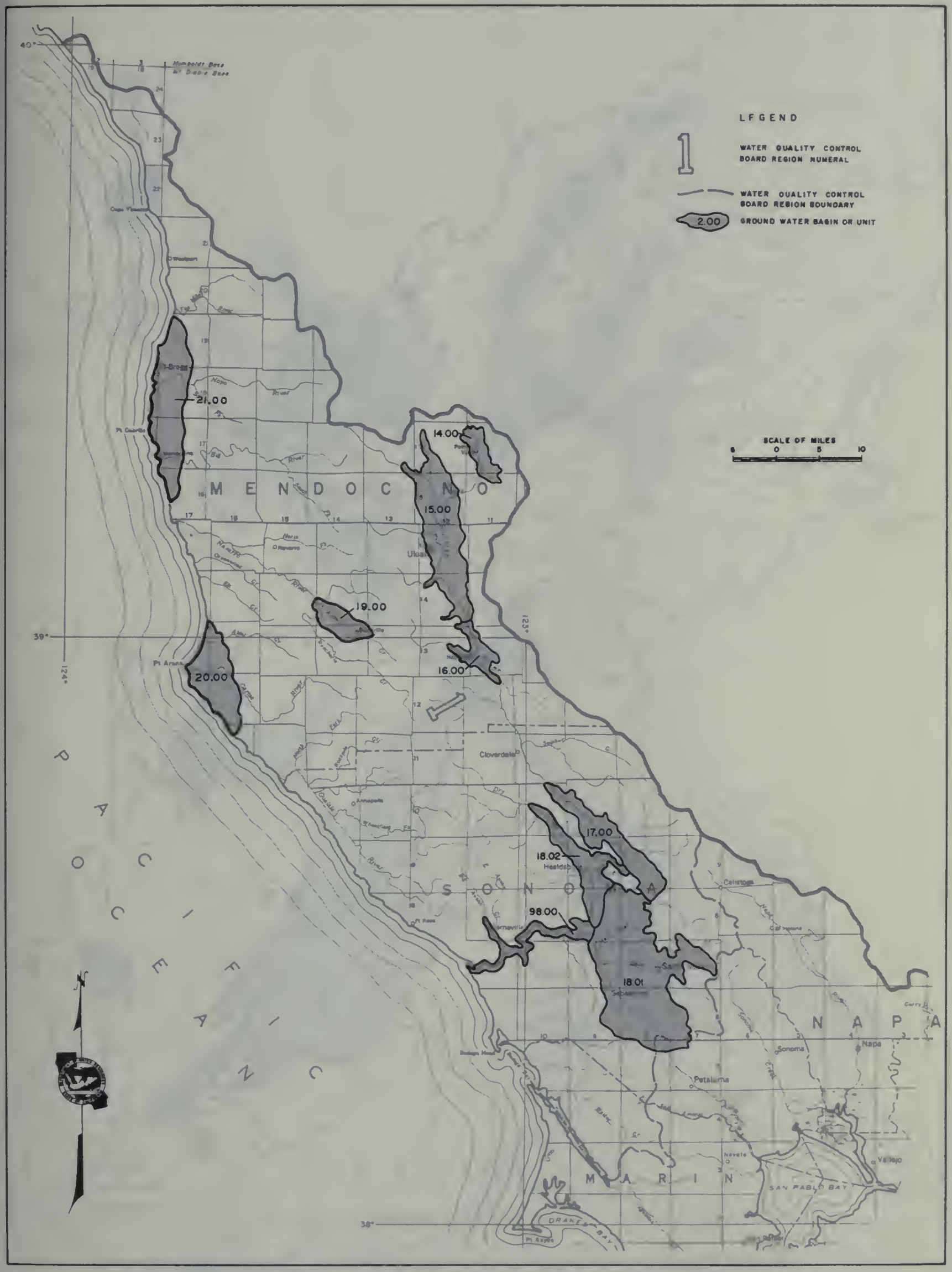


This number identifies and locates the well. In the example, the well is in Township 17 North, Range 11 West, Tract J of Section 18, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

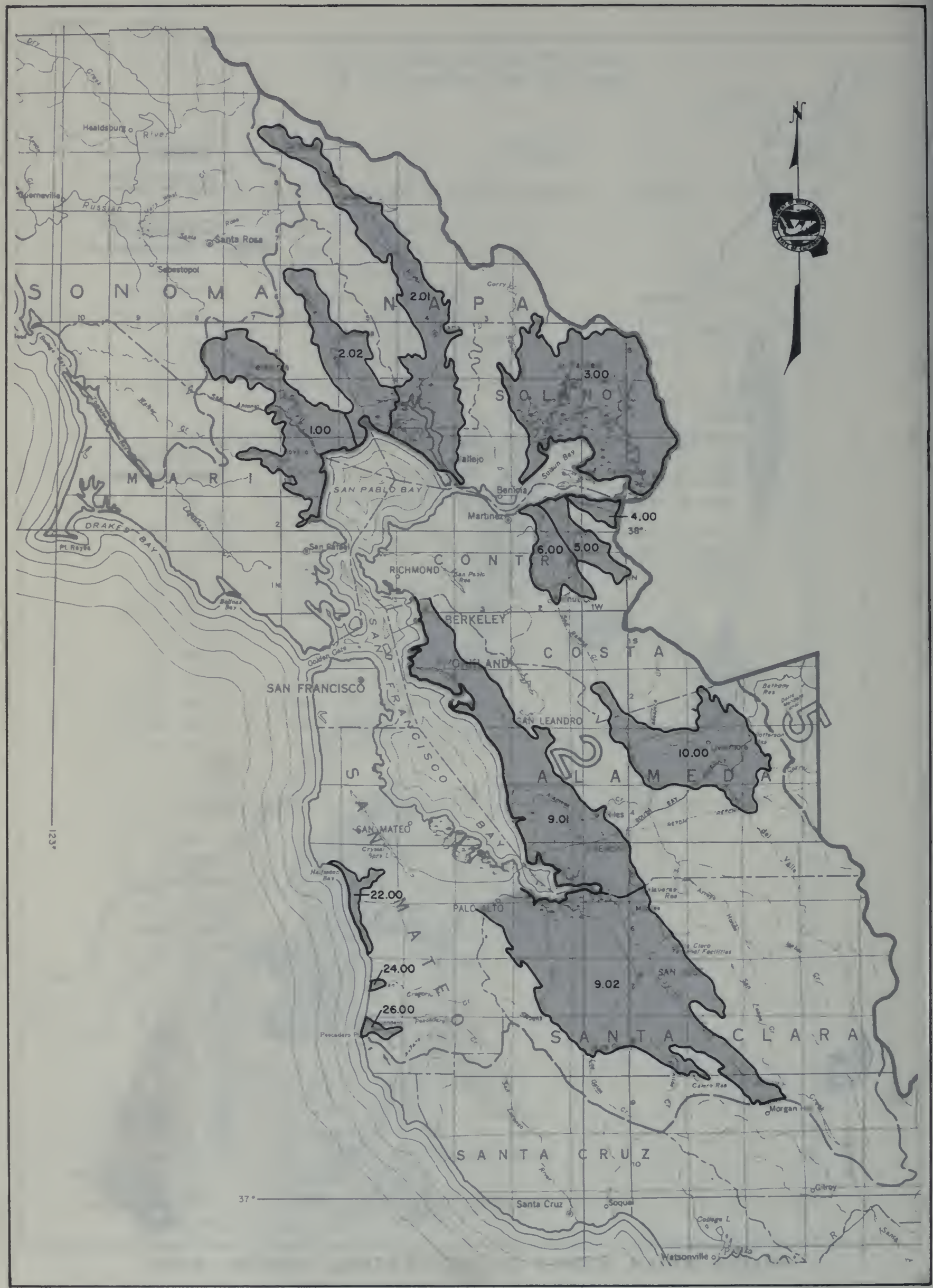
Sequence numbers in a tract are generally assigned in chronological order. The example designates the fourth well to be assigned a number in Tract J.

GROUND WATER BASINS OR AREAS IN THE CENTRAL COASTAL AREA

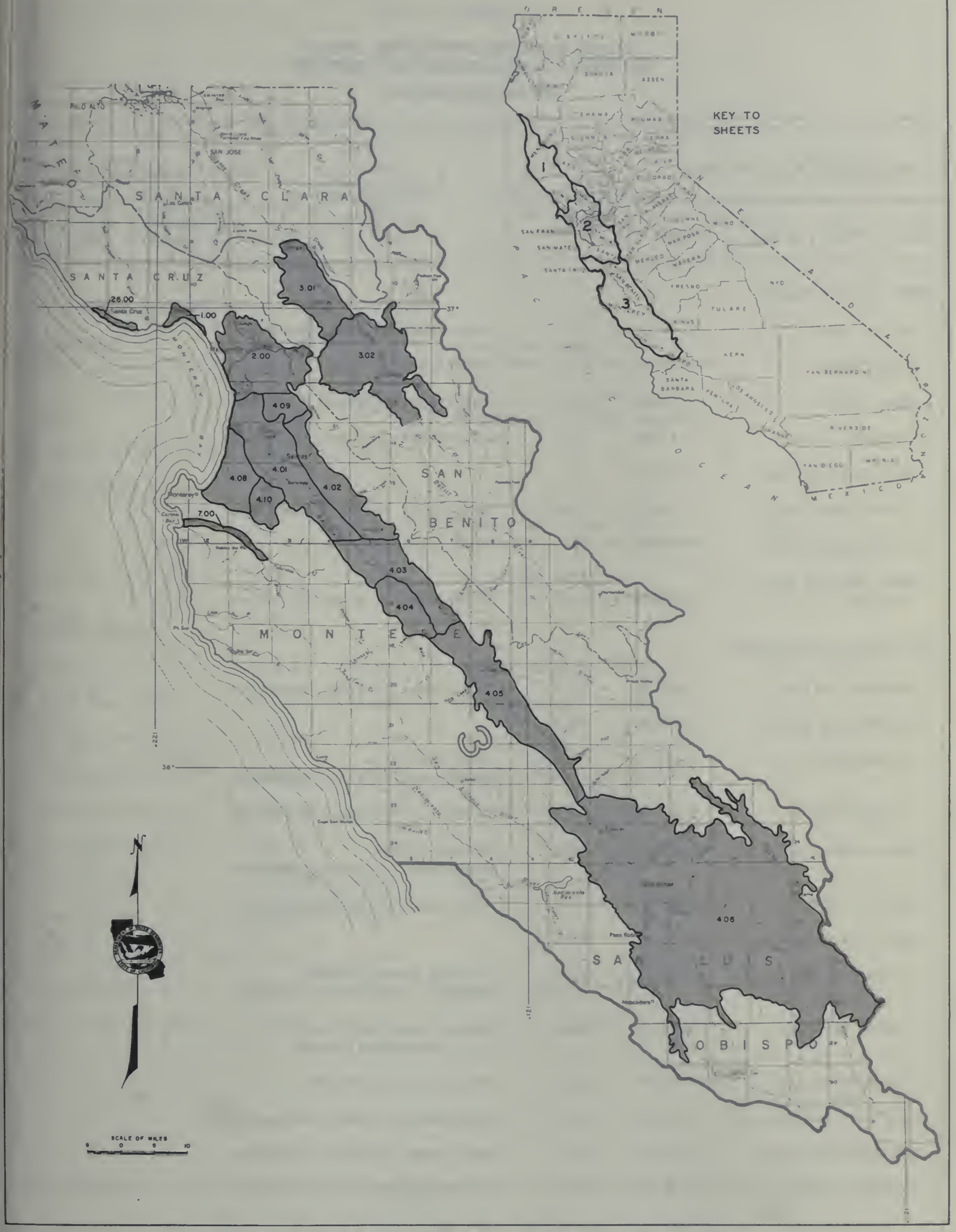


GROUND WATER BASINS IN THE CENTRAL COASTAL AREA

Sheet 2 FIGURE C-1



GROUND WATER BASINS IN THE CENTRAL COASTAL AREA



GROUND WATER BASINS IN THE CENTRAL COASTAL AREA

TABLE C-1

AVERAGE CHANGE OF GROUND WATER LEVELS
AND SUMMARY OF WELL MEASUREMENTS REPORTED

CENTRAL COASTAL AREA

Ground Water Basin or Area		Average Change Spring 1967 to Spring 1968 in Feet	Measuring Agency	Number of Wells Reported		
Name	Number			Monthly 1967-68	Fall 1967	Spring 1968
NORTH COASTAL REGION						
Potter Valley	1-14.00	-1.0	Department of Water Resources			2
Ukiah Valley	1-15.00	-1.9	Department of Water Resources			2
Sanel Valley	1-16.00	-2.1	Department of Water Resources			3
Alexander Valley	1-17.00	-2.6	Department of Water Resources			6
Santa Rosa Valley	1-18.00	-0.4				
Santa Rosa Area	1-18.01	0.0	Department of Water Resources			12
Healdsburg Area	1-18.02	-2.1	U. S. Geological Survey	9		
Lower Russian River Valley	1-98.00	-4.1	Department of Water Resources			3
SAN FRANCISCO BAY REGION						
Petaluma Valley	2-01.00	-0.8	Department of Water Resources		3	6
Napa-Sonoma Valley	2-02.00	-1.9				
Napa Valley	2-02.01	-2.0	Napa County			115
			Department of Water Resources		5	5
Sonoma Valley	2-02.02	-1.8	Department of Water Resources		5	5
Suisun-Fairfield Valley	2-03.00	-5.1	Solano County		15	15
			Department of Water Resources		7	7
Ygnacio Valley	2-06.00	-3.0	Department of Water Resources		4	5
Santa Clara Valley	2-09.00	+8.1				
East Bay Area	2-09.01	+3.4	Alameda County FC&WCD	3	6	6
			Alameda County Water District	4	4	3
South Bay Area	2-09.02	+11.1	Santa Clara Valley WCD	24		
			U. S. Geological Survey	3		
Livermore Valley	2-10.00	-6.1	Alameda County FC&WCD	7	4	4
Half Moon Bay Terrace	2-22.00	-1.0	Department of Water Resources		5	7
San Gregorio Valley	2-24.00	+0.1	Department of Water Resources		2	5
Pescadero Valley	2-26.00	-1.7	Department of Water Resources		3	7

TABLE C-1 (Continued)

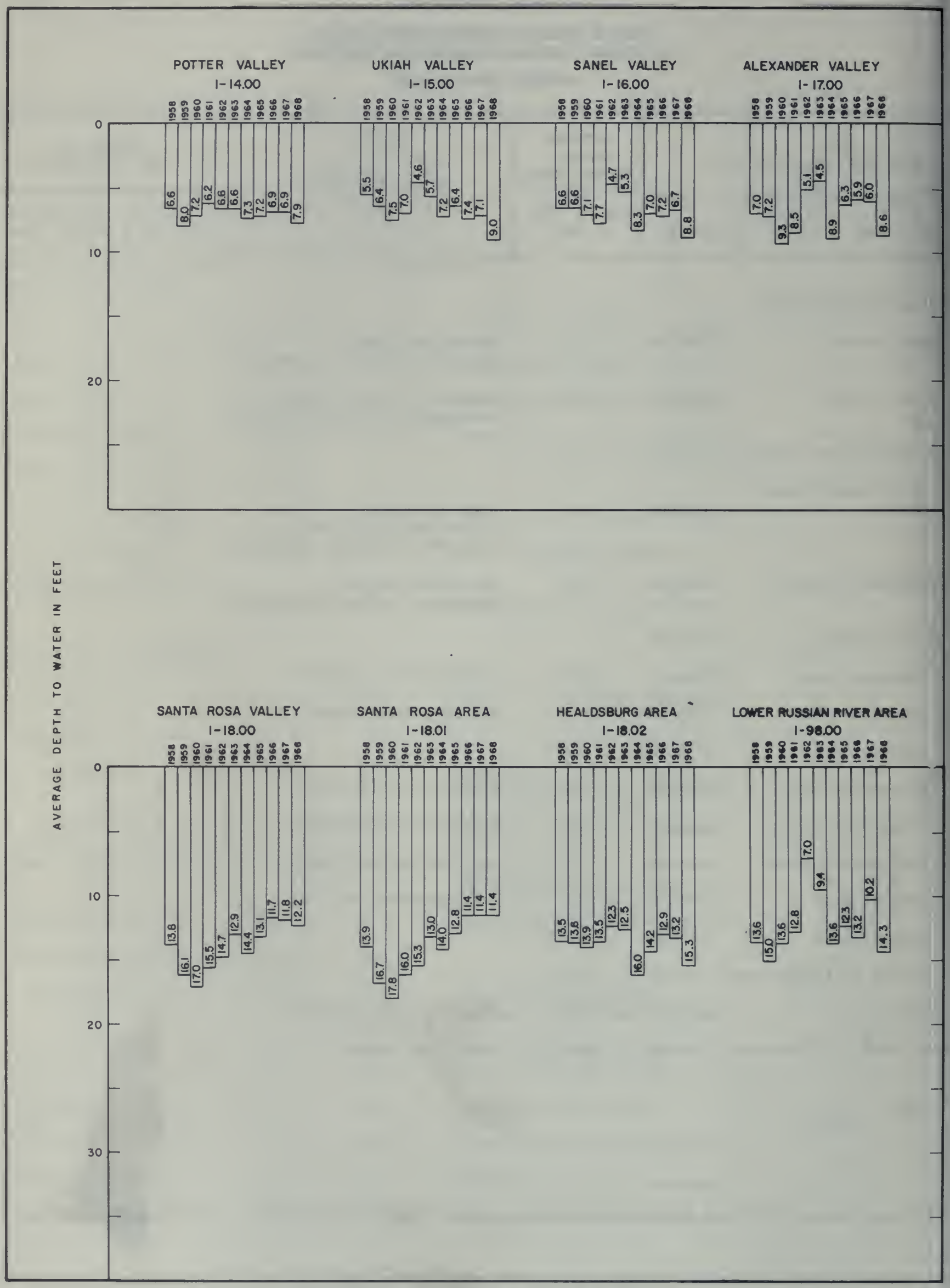
AVERAGE CHANGE OF GROUND WATER LEVELS
AND SUMMARY OF WELL MEASUREMENTS REPORTED

CENTRAL COASTAL AREA

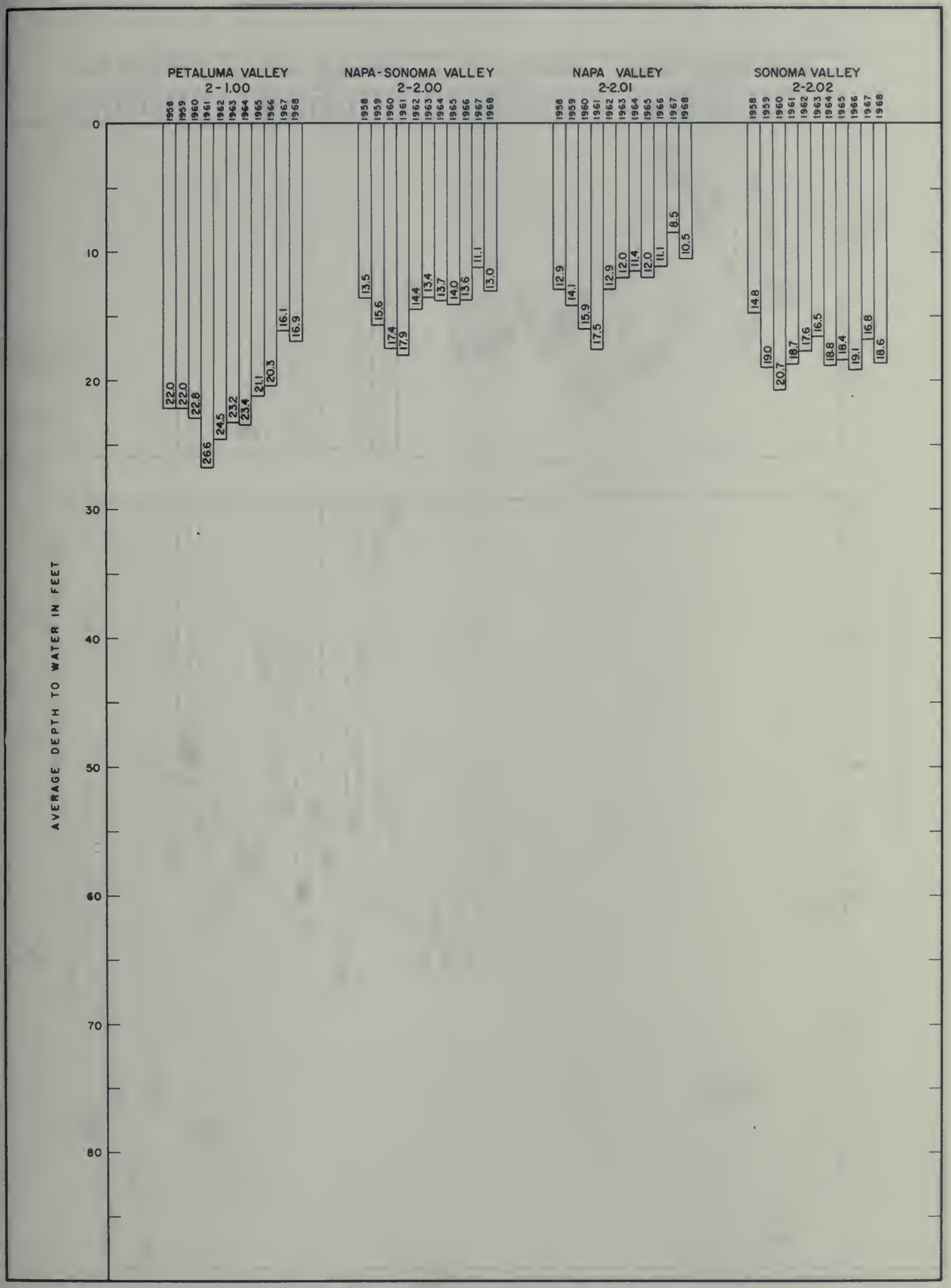
Ground Water Basin or Area		Average Change Spring 1967 to Spring 1968 in Feet	Measuring Agency	Number of Wells Reported		
Name	Number			Monthly 1967-68	Fall 1967	Spring 1968
CENTRAL COASTAL REGION						
Soquel Valley	3-01.00	-1.1	Santa Cruz County	3		
			Department of Water Resources		3	3
Pajaro Valley	3-02.00	+0.9*	Monterey County FC&WCD		5	
			Department of Water Resources		6	6
Gilroy-Holister Valley	3-03.00	+1.5				
South Santa Clara County	3-03.01	-2.2	City of Gilroy	5		
			Santa Clara Valley WCD	10		
			Department of Water Resources		5	7
San Benito County	3-03.02	+5.2	San Benito County			2
			Department of Water Resources		5	5
Salinas Valley	3-04.00					
Pressure Area	3-04.01	+1.0*	Monterey County FC&WCD	2	5	
East Side Area	3-04.02	+4.1*	Monterey County FC&WCD		1	
Forebay Area	3-04.03	-0.3*				
Arroyo Seco Cone	3-04.04	+0.5*	Monterey County FC&WCD	2		
Upper Valley Area	3-04.05	-1.8*	Monterey County FC&WCD	2	3	
Paso Robles Basin	3-04.06	-3.5	San Luis Obispo FC&WCD		40	26
Seaside Area	3-04.08	-0.2*	Post Engineer, Fort Ord		2	2
Langley Area	3-04.09	+0.2*				
Corral de Tierra Area	3-04.10	+1.1*				
Carmel Valley	3-07.00	+0.1*	Monterey County FC&WCD	4		
West Santa Cruz Terrace	3-26.00	+2.4	Santa Cruz County		2	2
TOTAL				78	140	271

*Average change determined from water level measurements made during fall of 1966 and fall of 1967.

Sheet 1 FIGURE C-2

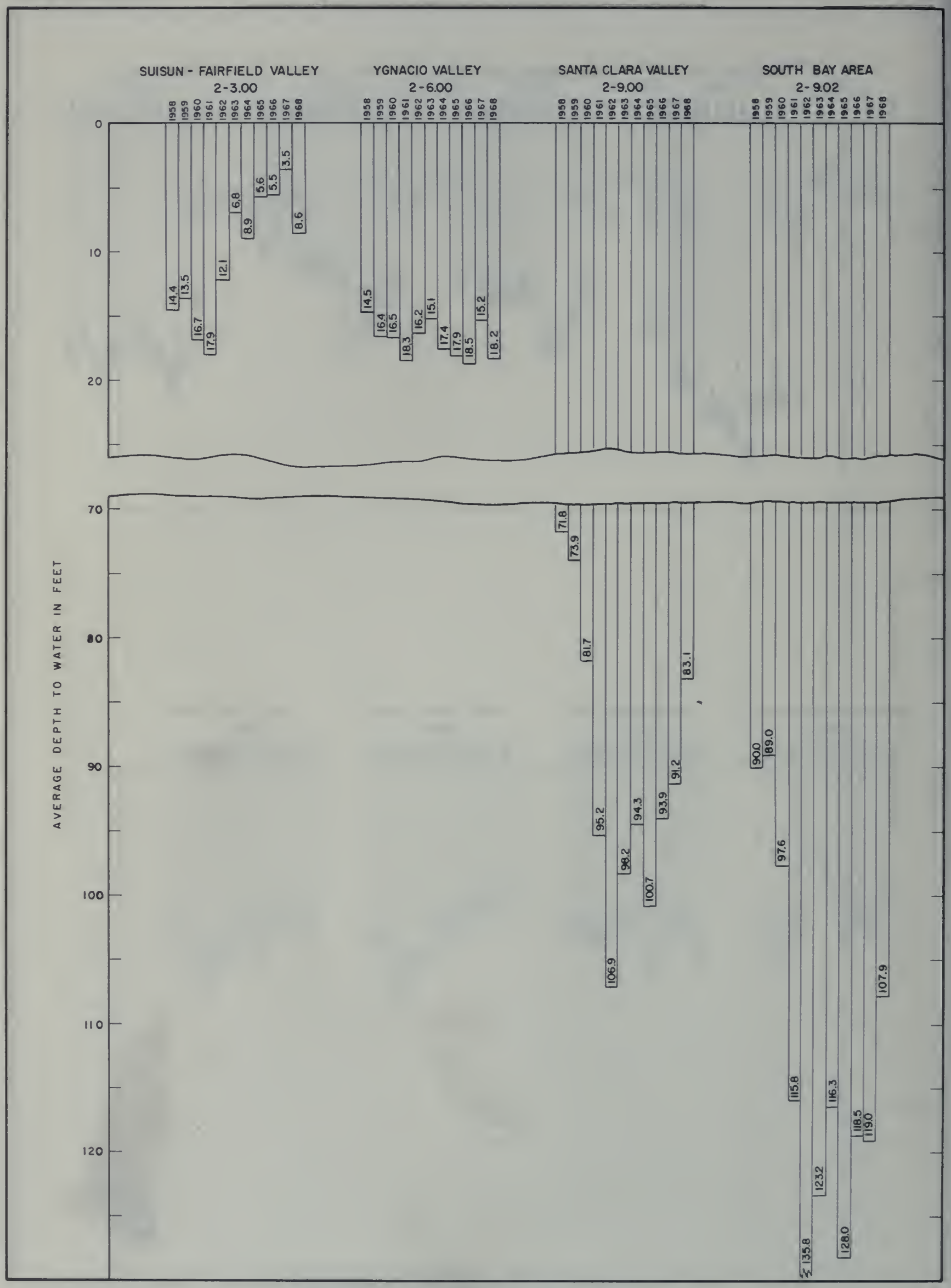


AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1968

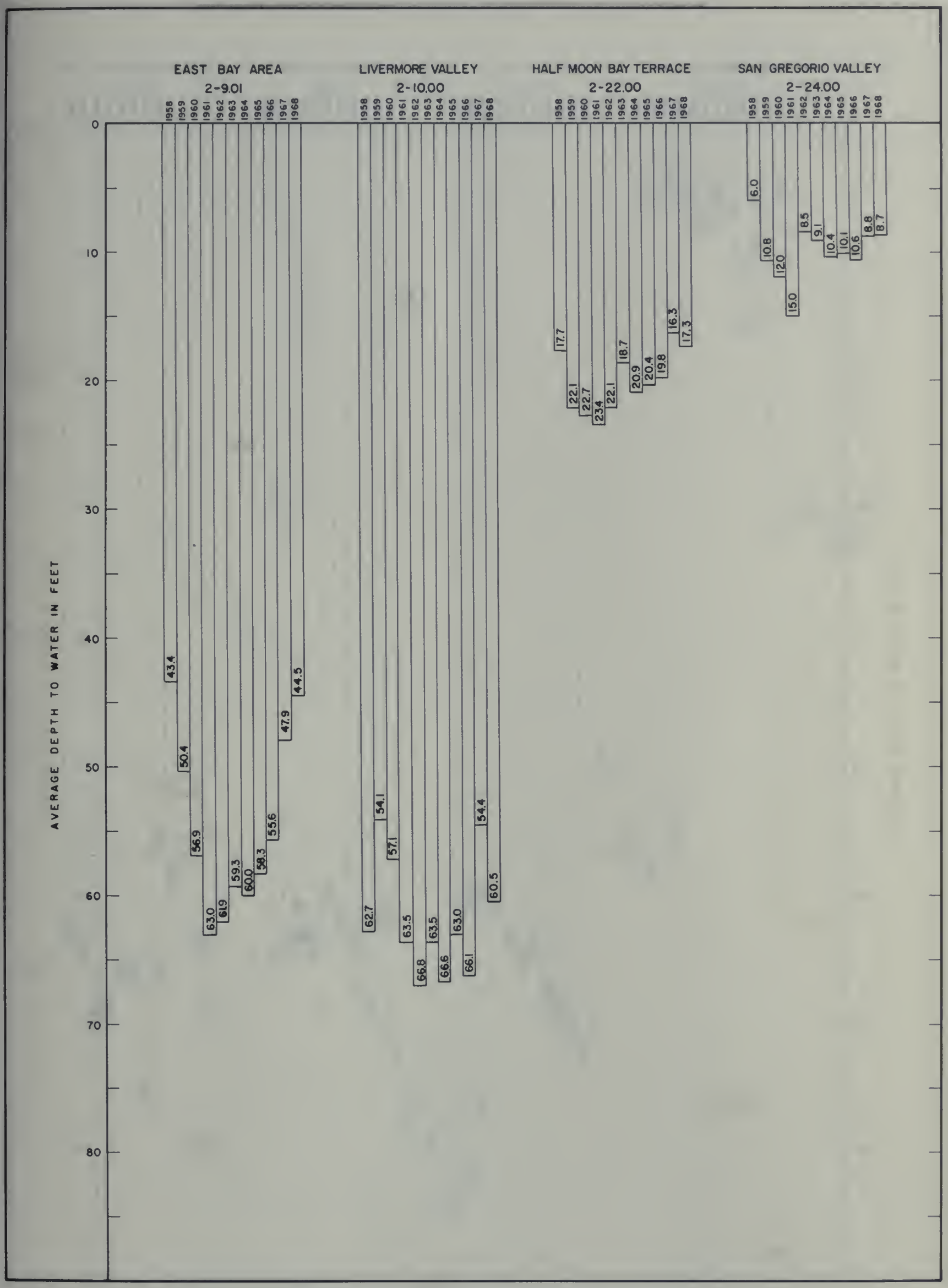


AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1968

Sheet 3 FIGURE C-2

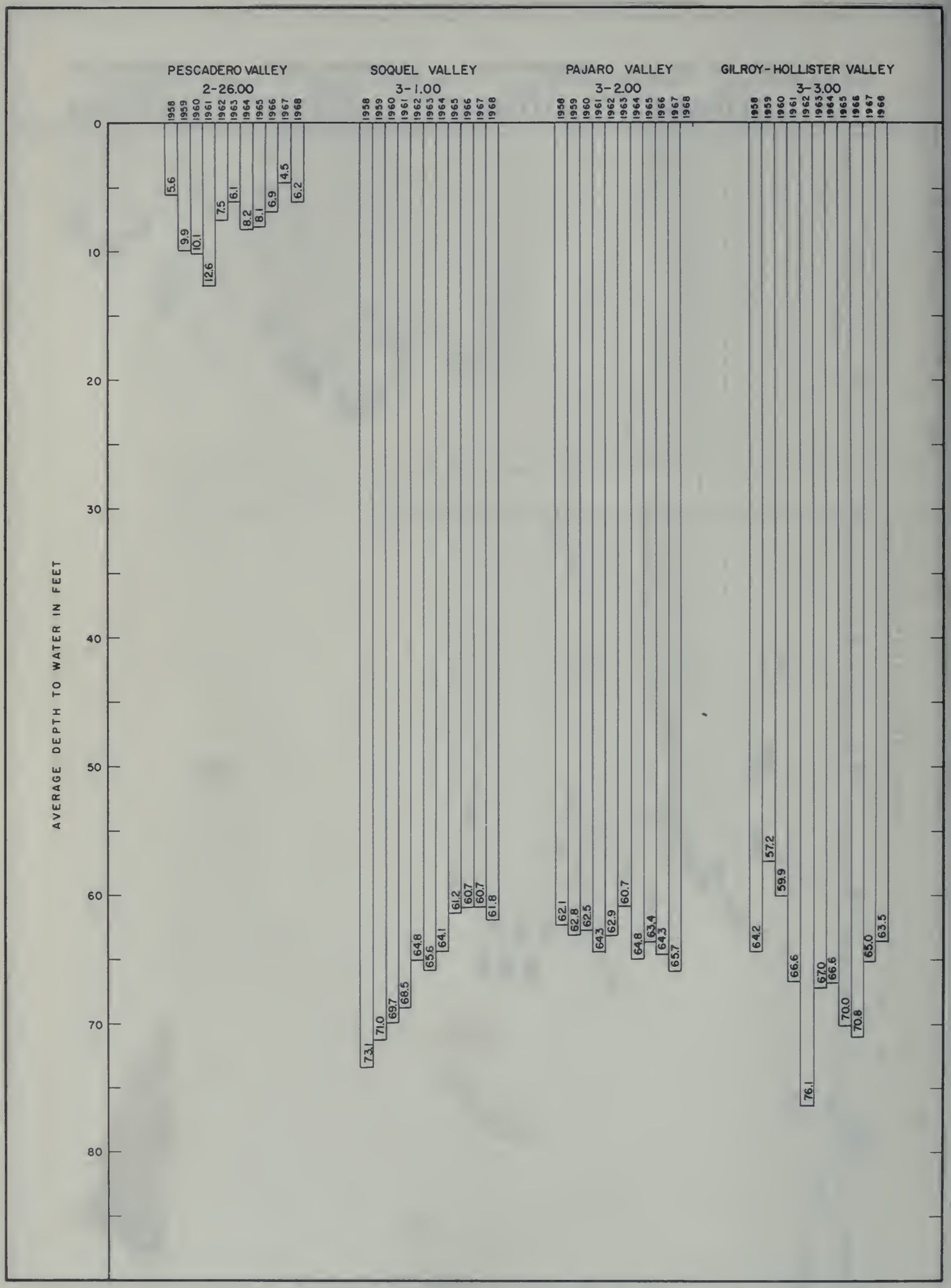


AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1968

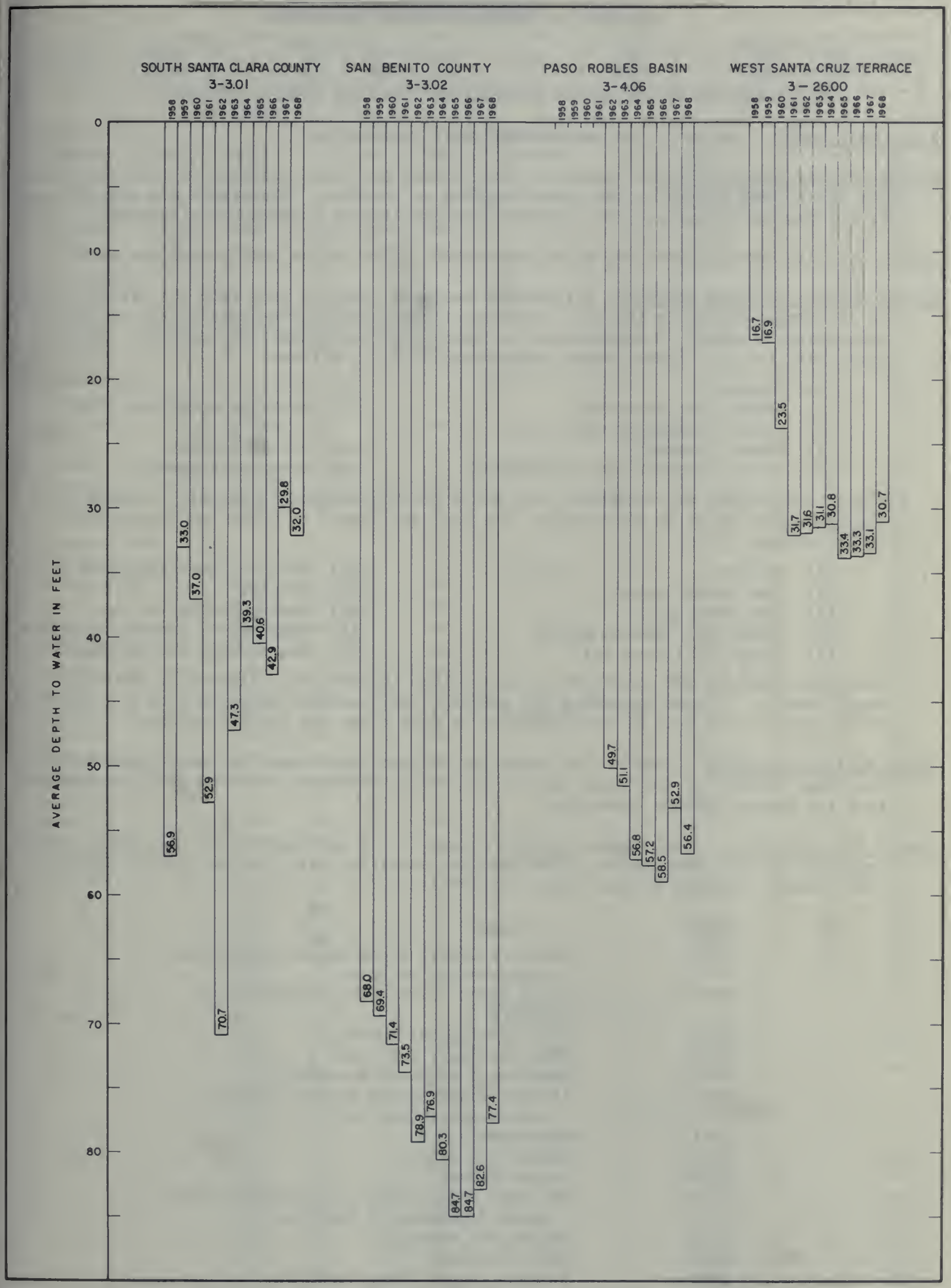


AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1968

Sheet 5 FIGURE C-2



AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1968



AVERAGE DEPTH TO WATER IN WELLS
SPRING 1958 TO SPRING 1968

TABLE C-2 GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number - Refer to the explanation under Introduction.

Ground Surface Elevation - The numbers in this column are the elevations in feet above mean sea level (USGS Datum) of the ground surface at the well. Elevations are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date - The date shown is when the depth measurement given in the next column was made.

Ground Surface to Water Surface - This is the measured depth in feet from the ground surface to the water surface in the well; certain of the depth measurements in the column may be preceded by a number in parentheses to indicate a questionable measurement. The code applicable to these "questionable measurements" is as follows:

(1) Pumping
(2) Nearby pump operating
(3) Casing leaking or wet
(4) Pumped recently
(5) Air or pressure gage measurement
(6) Other
(7) Recharge operation at or near well
(8) Oil in casing
(9) Caved or deepened

When a measurement was attempted, but could not be obtained, then only a number in parentheses is shown in the column. The code applicable to these "no measurements" is as follows:

(1) Pumping
(2) Pump house locked
(3) Tape hung up
(4) Cannot get tape in casing
(5) Unable to locate well
(6) Well has been destroyed
(7) Special
(8) Casing leaking or wet
(9) Temporarily inaccessible
(0) Measurement discontinued

The words FLOW and DRY are shown in this column to indicate a flowing or dry well, respectively. A minus preceding the number in this column indicates that the static water level in the well is this distance in feet above the ground surface.

Water Surface Elevation - This is the elevation in feet above mean sea level (USGS Datum) of the water surface in the well. It was derived by subtraction of the depth measurement from the ground surface elevation.

Agency Supplying Data - Each number in this column is the code number for the agency supplying data for that measurement. The agencies supplying data for this report and the code numbers assigned to them are as follows:

Code	Agency
2100	Monterey County Flood Control and Water Conservation District
2400	Santa Clara Valley Water Conservation District
5000	U. S. Geological Survey
5005	Post Engineer, Fort Ord
5050	Department of Water Resources
5100	Alameda County Flood Control and Water Conservation District
5101	Napa County
5102	Santa Cruz County
5109	Solano County
5117	San Luis Obispo County Flood Control and Water Conservation District
5151	San Benito County
5200	City of Gilroy
5401	Alameda County Water District

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE		GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH COASTAL REGION 1-00.00						
POTTER VALLEY 1-14.00						
17N/11W-18J01M	955.0	4-11-68		-0.5	955.5	5050
17N/11W-32J01M	905.0	4-11-68		1.8	903.2	5050
UKIAH VALLEY 1-15.00						
15N/12W-08L01M	640.0	4-10-68		18.0	622.0	5050
15N/12W-35M01M	600.0	4-10-68	(1)	4.4	595.6	5050
SANEL VALLEY 1-16.00						
13N/11W-18E01M	490.0	4-10-68	(1)	11.3	478.7	5050
13N/11W-19P01M	488.0	4-10-68		10.2	477.8	5050
13N/11W-20G01M	515.0	4-10-68		4.8	510.2	5050
ALEXANDER VALLEY 1-17.00						
10N/09W-18B01M	230.0	4-10-68		15.4	214.6	5050
10N/09W-26L02M	205.0	4-10-68		1.2	203.8	5050
10N/09W-33C01M	180.0	4-10-68		5.6	174.4	5050
11N/10W-08P01M	305.0	4-10-68		9.6	295.4	5050
11N/10W-17P02M	292.0	4-10-68		8.2	283.8	5050
11N/10W-19F02M	346.0	4-10-68		5.6	340.4	5050
SANTA ROSA VALLEY 1-18.00						
SANTA ROSA AREA 1-18.01						
6N/08W-07P02M	95.0	4-09-68	(8)	15.0	80.0	5050
6N/08W-13R01M	115.0	4-09-68		14.8	100.2	5050
6N/08W-15J03M	95.0	4-09-68		12.6	82.4	5050
6N/08W-15R01M	95.0	4-09-68		17.7	77.3	5050
7N/06W-19N01M	465.0	4-09-68		4.5	460.5	5050
7N/07W-06R01M	275.0	4-09-68	(3)	6.5	268.5	5050
7N/08W-11M01M	160.0	4-09-68		7.0	153.0	5050
7N/08W-24H02M	190.0	4-09-68	(3)	12.1	177.9	5050
7N/09W-01C01M	90.0	4-09-68		21.1	68.9	5050
7N/09W-35D02M	135.0	4-09-68		29.3	105.7	5050
8N/09W-36N01M	90.0	4-09-68		5.4	84.6	5050
8N/09W-36P01M	90.0	4-09-68		52.9	37.1	5050
HEALDSBURG AREA 1-18.02						
8N/09W-03P01M	77.0	10-18-67	(1)	0.3	76.7	5000
		11-17-67		7.9	69.1	5000
		12-13-67		6.8	70.2	5000
		1-16-68		(7)		5000
		2-15-68		14.5	62.5	5000
		3-15-68		17.1	59.9	5000
		4-15-68		20.0	57.0	5000
		5-17-68		5.0	72.0	5000
		6-14-68		7.2	69.8	5000
		7-15-68		7.8	69.2	5000
		8-15-68		8.4	68.6	5000
		9-17-68		8.3	68.7	5000
8N/09W-22L01M	67.0	10-18-67		37.3	29.7	5000
		11-17-67		29.8	37.2	5000
		12-13-67		28.7	38.3	5000
		1-16-68		27.8	39.2	5000
		2-15-68		31.8	35.2	5000
		3-15-68		26.0	41.0	5000
		4-15-68		27.0	40.0	5000
		5-17-68		28.7	38.3	5000
		6-14-68		37.1	29.9	5000
		7-15-68		31.5	35.5	5000
		8-15-68		32.9	34.1	5000
		9-17-68		31.8	35.2	5000
9N/09W-20E02M	100.0	10-18-67		16.4	83.6	5000
		11-17-67		11.0	89.0	5000
		12-13-67		15.6	84.4	5000
		1-16-68		12.4	87.6	5000
		2-15-68		15.2	84.8	5000
		3-15-68		14.0	86.0	5000
		4-15-68		15.4	84.6	5000
		5-17-68		16.5	83.5	5000
		6-14-68		17.6	82.4	5000
		7-15-68		17.0	83.0	5000
		8-15-68		20.8	79.2	5000
		9-17-68		18.3	81.7	5000

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE		GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
HEALDSBURG AREA 1-18.02						
9N/09W-20K04M	97.0	10-18-67		5.7	91.3	5000
		11-17-67		5.6	91.4	5000
		12-13-67		5.0	92.0	5000
		1-16-68		2.2	94.8	5000
		2-15-68		2.3	94.7	5000
		3-15-68		0.2	96.8	5000
		4-15-68		3.9	93.1	5000
		5-17-68		4.1	92.9	5000
		6-14-68		5.5	91.5	5000
		7-15-68		6.1	90.9	5000
		8-15-68		6.3	90.7	5000
		9-17-68		6.9	90.1	5000
9N/09W-28N01M	90.0	10-18-67		22.1	67.9	5000
		11-17-67		18.3	71.7	5000
		12-13-67		17.2	72.8	5000
		1-16-68		14.3	75.7	5000
		2-15-68		16.5	73.5	5000
		3-15-68		15.3	74.7	5000
		4-15-68		17.3	72.7	5000
		5-17-68		18.9	71.1	5000
		6-14-68		18.4	71.6	5000
		7-15-68		21.8	68.2	5000
		8-15-68		23.7	66.3	5000
		9-17-68		24.7	65.3	5000
9N/10W-12C01M	120.0	10-18-67		13.9	106.1	5000
		11-17-67		14.4	105.6	5000
		12-13-67		13.6	106.4	5000
		1-16-68		14.2	105.8	5000
		2-15-68		12.8	107.2	5000
		3-15-68		11.6	108.4	5000
		4-15-68		20.7	99.3	5000
		5-17-68		14.4	105.6	5000
		6-14-68		14.7	105.3	5000
		7-15-68		15.0	105.0	5000
		8-15-68		15.2	104.8	5000
		9-17-68		15.1	104.9	5000
10N/10W-22D01M	180.0	10-18-67		10.5	169.5	5000
		11-17-67		10.5	169.5	5000
		12-13-67		10.0	170.0	5000
		1-16-68		7.0	173.0	5000
		2-15-68		8.8	171.2	5000
		3-15-68		7.6	172.4	5000
		4-15-68		9.5	170.5	5000
		5-17-68		13.4	166.6	5000
		6-14-68		10.6	169.4	5000
		7-15-68	(1)	11.0	169.0	5000
		8-15-68		11.2	168.8	5000
		9-17-68		11.2	168.8	5000
10N/10W-26M01M	161.0	10-18-67		11.6	149.4	5000
		11-17-67		10.9	150.1	5000
		12-13-67		10.6	150.4	5000
		1-16-68		7.5	153.5	5000
		2-15-68		9.8	151.2	5000
		3-15-68		8.6	152.4	5000
		4-15-68		10.4	150.6	5000
		5-17-68		15.2	145.8	5000
		6-14-68		11.3	149.7	5000
		7-15-68		11.8	149.2	5000
		8-15-68		12.9	148.1	5000
		9-17-68		12.5	148.5	5000
10N/10W-35Q01M	142.0	10-18-67		5.4	136.6	5000
		11-17-67		5.6	136.4	5000
		12-13-67		5.8	136.2	5000
		1-16-68		1.0	141.0	5000
		2-15-68		1.0	141.0	5000
		3-15-68		0.9	141.1	5000
		4-15-68		1.8	140.2	5000
		5-17-68		2.4	139.6	5000
		6-14-68		3.0	139.0	5000
		7-15-68		4.3	137.7	5000
		8-15-68		5.2	136.8	5000
		9-17-68		5.7	136.3	5000
LOWER RUSSIAN RIVER VALLEY 1-98.00						
7N/10W-06N01M	25.0	4-10-68		19.4	5.6	5050
7N/11W-14E01M	25.0	4-10-68		18.4	6.6	5050
8N/10W-29D02M	50.0	4-10-68		3.0	47.0	5050
SAN FRANCISCO BAY REGION 2-00.00						
PETALUMA VALLEY 2-01.00						
3N/06W-01Q01M	2.0	4-08-68		FLOW		5050
		5-13-68		FLOW		5050
		9-19-68		3.6	-1.6	5050
5N/07W-19N01M	45.0	4-08-68		3.1	41.9	5050
		5-13-68		7.5	37.5	5050
		9-19-68		11.4	33.6	5050
5N/07W-20B02M	41.0	10-23-67		65.0	-24.0	5050
		11-16-67		61.7	-20.7	5050
		3-19-68		47.8	-6.8	5050
		4-08-68		44.7	-6.7	5050
		5-13-68		61.3	-20.3	5050
		9-19-68		68.8	-27.8	5050

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PETALUMA VALLEY 2-01.00					
5N/07W-21H01M	65.0	10-23-67	38.7	26.3	5050
		11-16-67	41.1	23.9	5050
		3-19-68	28.2	36.8	5050
		4-08-68	27.3	37.7	5050
		5-13-68	28.2	36.8	5050
		9-19-68	40.2	24.8	5050
5N/07W-26R01M	53.6	10-23-67	23.9	29.7	5050
		11-16-67	24.1	29.5	5050
		3-19-68	18.4	35.2	5050
		4-08-68	17.5	36.1	5050
		5-13-68	17.9	35.7	5050
		9-19-68	25.5	28.1	5050
5N/07W-35K01M	18.8	4-08-68	7.8	11.0	5050
		5-13-68	11.7	7.0	5050
		9-19-68	18.1	0.7	5050
NAPA-SONOMA VALLEY 2-02.00					
NAPA VALLEY 2-02.01					
4N/04W-02L01M	25.0	3-18-68	7.6	17.4	5101
4N/04W-04C01M	12.0	3-18-68	8.2	3.8	5101
4N/04W-05B01M	31.0	3-18-68	11.3	19.7	5101
4N/04W-05D02M	22.0	3-18-68	4.7	17.3	5101
4N/04W-12M01M	48.0	3-18-68	16.6	31.4	5101
4N/04W-14C02M	34.0	3-18-68	37.9	-3.9	5101
4N/04W-25K01M	37.0	3-18-68	0.2	36.8	5101
5N/03W-05M01M	255.0	3-18-68	77.3	177.7	5101
5N/04W-03G01M	18.0	3-19-68	9.4	8.6	5101
5N/04W-04G01M	63.5	3-19-68	5.1	58.4	5101
5N/04W-04Q01M	58.0	3-19-68	11.3	46.7	5101
5N/04W-05P01M	121.0	3-19-68	2.0	119.0	5101
5N/04W-05P02M	122.0	3-19-68	16.1	105.9	5101
5N/04W-10F01M	30.0	3-19-68	1.7	28.3	5101
5N/04W-11F03M	16.0	3-19-68	12.7	3.3	5101
5N/04W-11M01M	13.0	10-18-67	8.3	4.7	5050
		11-15-67	8.0	5.0	5050
		3-19-68	5.0	8.0	5050
		4-15-68	7.2	5.8	5050
		5-14-68	7.9	5.1	5050
		9-19-68	8.9	4.1	5050
5N/04W-12F01M	130.0	3-19-68	(7)		5101
5N/04W-12H01M	121.0	3-19-68	41.0	80.0	5101
5N/04W-13H01M	132.0	3-22-68	5.5	126.5	5101
5N/04W-13H02M	120.0	3-19-68	11.8	108.2	5101
5N/04W-14C01M	17.0	3-22-68	10.5	6.5	5101
5N/04W-15C02M	22.0	3-19-68	15.1	6.9	5101
5N/04W-15E01M	22.0	3-19-68	15.2	6.8	5101
5N/04W-19R02M	110.0	3-19-68	10.6	99.4	5101
5N/04W-20R02M	50.0	3-19-68	0.9	49.1	5101
5N/04W-21B01M	75.0	3-19-68	15.5	59.5	5101
5N/04W-22M01M	12.0	3-19-68	-1.0	13.0	5101
5N/04W-28R01M	37.0	3-19-68	47.4	-10.4	5101
5N/04W-29H01M	77.0	3-20-68	23.9	53.1	5101
6N/03W-31B01M	240.0	3-22-68	111.7	128.3	5101
6N/03W-31F01M	145.0	3-22-68	(4)		5101
6N/03W-31H01M	180.0	3-20-68	67.5	112.5	5101
6N/03W-31N01M	170.0	3-22-68	46.7	123.3	5101
6N/03W-31N02M	167.0	3-22-68	45.8	121.2	5101
6N/04W-05R01M	67.0	3-18-68	0.8	66.2	5101
6N/04W-06L02M	80.0	3-20-68	6.4	73.6	5101
6N/04W-06N01M	75.0	3-20-68	3.2	71.8	5101
6N/04W-06P01M	75.0	3-20-68	6.4	68.6	5101
6N/04W-07N01M	135.0	3-20-68	18.5	116.5	5101
6N/04W-08E01M	70.0	3-20-68	6.9	63.1	5101
6N/04W-15Q01M	67.0	3-18-68	35.7	31.3	5101

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NAPA VALLEY 2-02.01					
6N/04W-16P01M	62.0	3-20-68	9.1	52.9	5101
6N/04W-17A01M	67.0	10-18-67	(8) 11.0	56.0	5050
		11-15-67	(8) 10.5	56.5	5050
		3-19-68	4.8	62.2	5050
		4-15-68	5.2	61.8	5050
		5-14-68	7.9	59.1	5050
		9-19-68	15.5	51.5	5050
6N/04W-18A02M	85.0	3-20-68	18.8	66.2	5101
6N/04W-19B01M	125.0	3-20-68	16.6	108.4	5101
6N/04W-21G01M	61.0	3-18-68	0.7	60.3	5101
6N/04W-22P01M	53.0	3-18-68	1.9	51.1	5101
6N/04W-23J01M	87.0	3-18-68	(8)		5101
6N/04W-26N01M	32.0	3-20-68	16.4	15.6	5101
6N/04W-27L02M	50.0	10-18-67	44.6	5.4	5050
		11-15-67	44.0	6.0	5050
		3-19-68	27.6	22.4	5050
		4-14-68	25.4	24.6	5050
		5-14-68	32.7	17.3	5050
		9-19-68	47.6	2.4	5050
6N/04W-27N01M	50.0	3-18-68	21.9	28.1	5101
6N/04W-28K01M	62.0	3-18-68	5.7	56.3	5101
6N/04W-29B01M	92.0	3-20-68	4.4	87.6	5101
6N/04W-30C01M	149.0	3-20-68	6.4	142.6	5101
6N/04W-32J06M	94.0	3-20-68	14.4	79.6	5101
6N/04W-32L02M	107.0	3-20-68	(8)		5101
6N/04W-35G03M	38.0	3-18-68	10.5	27.5	5101
6N/04W-35L03M	23.0	3-18-68	(0)		5101
6N/04W-36H01M	105.0	3-26-68	22.0	83.0	5101
6N/05W-12R01M	180.0	3-20-68	21.1	158.9	5101
7N/04W-30L01M	112.0	3-20-68	3.2	108.8	5101
7N/04W-30M01M	114.0	3-26-68	1.1	112.9	5101
7N/04W-31E01M	90.0	3-26-68	(4)		5101
7N/04W-32B02M	180.0	3-26-68	1.9	178.1	5101
7N/05W-03G01M	188.0	3-26-68	29.0	159.0	5101
7N/05W-03G02M	188.0	3-26-68	10.9	177.1	5101
7N/05W-04R02M	172.0	3-26-68	3.7	168.3	5101
7N/05W-05A01M	182.0	3-25-68	0.7	181.3	5101
7N/05W-06F01M	245.0	3-26-68	16.3	228.7	5101
7N/05W-06J01M	215.0	3-26-68	11.4	203.6	5101
7N/05W-08A01M	175.0	3-25-68	10.9	164.1	5101
7N/05W-08M01M	190.0	3-25-68	16.6	173.4	5101
7N/05W-09Q01M	155.0	3-25-68	7.2	147.8	5101
7N/05W-09Q02M	155.0	10-18-67	14.7	140.3	5050
		11-15-67	15.1	139.9	5050
		3-19-68	7.2	147.8	5050
		4-15-68	8.2	146.8	5050
		5-14-68	9.9	145.1	5050
		9-19-68	16.5	138.5	5050
7N/05W-09Q03M	155.0	3-25-68	3.1	151.9	5101
7N/05W-10C01M	162.2	3-26-68	11.1	151.1	5101
7N/05W-14B02M	139.0	3-26-68	4.1	134.9	5101
7N/05W-14J01M	140.0	3-26-68	4.2	135.8	5101
7N/05W-15A01M	143.0	3-26-68	9.1	133.9	5101
7N/05W-15F01M	141.0	3-26-68	8.9	132.1	5101
7N/05W-16L01M	171.0	3-25-68	-0.5	171.5	5101
7N/05W-16N02M	193.0	3-26-68	12.9	180.1	5101
7N/05W-17B01M	166.0	3-26-68	(4)		5101
7N/05W-17B02M	161.0	3-26-68	-0.2	161.2	5101
7N/05W-21C01M	152.0	3-26-68	-1.6	153.6	5101
7N/05W-22E03M	140.0	3-25-68	-0.2	140.2	5101
7N/05W-22H01M	133.0	3-25-68	5.1	127.9	5101
7N/05W-23D02M	127.0	3-25-68	0.4	126.6	5101

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NAPA VALLEY 2-02.01					
7N/05W-23Q01M	115.0	3-25-68	4.7	110.3	5101
7N/05W-24P01M	127.0	3-22-68	1.2	125.8	5101
7N/05W-25A01M	163.0	3-22-68	9.0	154.0	5101
7N/05W-26D02M	127.0	3-25-68	0.7	126.3	5101
7N/05W-34C02M	190.0	3-26-68	5.7	184.3	5101
7N/05W-35F02M	175.0	3-25-68	3.1	171.9	5101
7N/05W-36N01M	141.0	3-25-68	3.6	137.4	5101
7N/06W-01A01M	264.0	3-25-68	10.8	253.2	5101
8N/05W-30P01M	220.0	3-25-68	1.0	219.0	5101
8N/05W-31H01M	212.0	3-25-68	10.7	201.3	5101
8N/05W-31P02M	237.0	3-25-68	12.1	224.9	5101
8N/05W-31R01M	210.0	3-21-68	7.9	202.1	5101
8N/05W-32K04M	192.0	3-25-68	(7)		5101
8N/06W-03M01M	330.0	3-21-68	40.9	289.1	5101
8N/06W-04F01M	330.0	3-21-68	(6) 11.7	318.3	5101
8N/06W-06L04M	335.0	3-21-68	3.2	331.8	5101
8N/06W-09D02M	290.0	3-21-68	10.4	279.6	5101
8N/06W-09H01M	290.0	3-21-68	3.0	287.0	5101
8N/06W-09N02M	291.5	3-21-68	1.0	290.5	5101
8N/06W-10Q01M	290.0	10-18-67	5.2	284.8	5050
		11-15-67	4.9	285.1	5050
		3-19-68	1.1	288.9	5050
		4-15-68	1.7	288.3	5050
		5-14-68	2.5	287.5	5050
		9-19-68	16.5	273.5	5050
8N/06W-14N01M	285.0	3-21-68	10.2	274.8	5101
8N/06W-14Q01M	250.0	3-21-68	3.6	246.4	5101
8N/06W-23M01M	285.0	3-21-68	4.1	280.9	5101
8N/06W-24B01M	300.0	3-21-68	7.1	292.9	5101
8N/06W-25G02M	230.0	3-21-68	(8)		5101
9N/06W-31Q01M	340.0	3-21-68	-0.1	340.1	5101
9N/06W-32M01M	360.0	3-21-68	5.4	354.6	5101
9N/07W-24L01M	460.0	3-21-68	5.2	454.8	5101
9N/07W-25N01M	380.0	3-21-68	1.5	378.5	5101
9N/07W-25N02M	380.0	3-21-68	3.2	376.8	5101
9N/07W-26P01M	400.0	3-21-68	1.0	399.0	5101
9N/07W-35K01M	399.0	3-21-68	0.6	398.4	5101
SONOMA VALLEY 2-02.02					
5N/05W-17C01M	85.0	10-23-67	28.4	56.6	5050
		11-16-67	25.9	59.1	5050
		3-19-68	19.0	66.0	5050
		4-15-68	19.7	65.3	5050
		5-14-68	18.9	66.1	5050
		9-19-68	26.1	58.9	5050
5N/05W-18R01M	43.0	10-23-67	13.1	29.9	5050
		11-16-67	13.3	29.7	5050
		3-19-68	2.1	40.9	5050
		4-15-68	3.2	39.8	5050
		5-14-68	5.0	38.0	5050
		9-19-68	14.6	28.4	5050
5N/05W-28N01M	11.0	3-19-68	6.6	4.4	5050
		4-15-68	6.8	4.2	5050
		5-14-68	(1) 8.6	2.4	5050
		9-19-68	(1) 11.3	-0.3	5050
5N/05W-29N01M	16.0	10-23-67	12.1	3.9	5050
		11-16-67	11.9	4.1	5050
		3-19-68	5.3	10.7	5050
		4-15-68	7.9	8.1	5050
		5-14-68	8.5	7.5	5050
		9-19-68	12.4	3.6	5050
5N/05W-30J03M	16.0	10-23-67	12.5	3.5	5050
		11-16-67	12.0	4.0	5050
		3-19-68	5.6	10.4	5050
		4-15-68	7.2	8.8	5050
		5-14-68	(1) 17.5	-1.5	5050
		9-19-68	14.5	1.5	5050

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SUISUN-FAIRFIELD VALLEY 2-03.00					
4N/02W-04D02M	26.0	10-10-67	11.5	14.5	5109
		3-08-68	10.1	15.9	5109
4N/02W-06A01M	35.0	11-22-66	16.2	18.8	5050
		12-15-66	15.0	20.0	5050
		1-19-67	16.2	18.8	5050
		2-16-67	14.3	20.7	5050
		3-15-67	13.3	21.7	5050
		4-28-67	11.9	23.1	5050
		5-17-67	13.5	21.5	5050
		8-19-67	16.0	19.0	5050
		9-12-67	15.6	19.4	5050
		10-10-67	16.0	19.0	5109
		10-20-67	15.7	19.3	5050
		11-16-67	15.7	19.3	5050
		3-08-68	14.3	20.7	5109
		3-18-68	13.1	21.9	5050
		4-16-68	14.4	20.6	5050
		5-13-68	14.2	20.8	5050
		9-17-68	15.5	19.5	5050
4N/02W-09A01M	7.0	10-10-67	-0.3	7.3	5109
		10-20-67	1.1	5.9	5050
		11-16-67	1.3	5.7	5050
		3-01-68	-0.5	7.5	5109
		3-18-68	FLOW		5050
		4-16-68	-0.3	7.3	5050
		5-13-68	0.0	7.0	5050
		9-17-68	1.0	6.0	5050
4N/02W-09H01M	4.0	10-20-67	-0.4	4.4	5050
		11-16-67	(1)		5050
		3-18-68	FLOW		5050
		4-16-68	(3) 1.2	2.8	5050
		5-13-68	(1) 0.6	3.4	5050
		9-17-68	(1) 0.3	3.7	5050
4N/03W-01D01M	37.0	10-10-67	7.3	29.7	5109
		3-08-68	3.6	33.4	5109
4N/03W-13G01M	47.0	10-10-67	17.8	29.2	5109
		3-08-68	18.3	28.7	5109
5N/01W-02N01M	88.5	10-09-67	10.0	78.5	5109
		3-07-68	8.4	80.1	5109
5N/01W-07E01M	115.0	10-09-67	14.0	101.0	5109
		3-07-68	14.0	101.0	5109
5N/01W-25R01M	25.0	10-09-67	10.2	14.8	5109
		3-07-68	8.8	16.2	5109
5N/02W-08G03M	143.0	10-10-67	12.1	130.9	5109
		3-07-68	10.7	132.3	5109
5N/02W-14N03M	100.0	10-10-67	10.8	89.2	5109
		5-15-68	8.7	91.3	5109
5N/02W-21P03M	60.0	10-10-67	(1) 21.6	38.4	5109
		10-20-67	11.2	48.8	5050
		11-16-67	11.8	48.2	5050
		3-07-68	11.7	48.3	5109
		3-18-68	11.3	48.7	5050
		4-16-68	11.4	48.6	5050
		5-13-68	10.8	49.2	5050
		9-17-68	12.2	47.8	5050
5N/02W-24B04M	58.0	10-10-67	6.1	51.9	5109
		3-07-68	4.7	53.3	5109
5N/02W-25R01M	7.0	10-09-67	5.6	1.4	5109
		10-19-67	5.9	1.1	5050
		11-16-67	5.4	1.6	5050
		3-07-68	2.1	4.9	5109
		3-18-68	0.3	6.7	5050
		4-16-68	3.3	3.7	5050
		5-13-68	4.3	2.7	5050
		9-17-68	5.7	1.3	5050
5N/02W-27J02M	24.0	10-09-67	6.5	17.5	5109
		10-20-67	(2) 11.2	12.8	5050
		11-16-67	6.3	17.7	5050
		3-08-68	(2) 25.3	-1.3	5109
		3-18-68	(2) 28.7	-4.7	5050
		4-16-68	5.8	18.2	5050
		5-13-68	5.7	18.3	5050
		9-17-68	8.0	16.0	5050
5N/02W-29R01M	46.0	10-10-67	10.9	35.1	5109
		3-08-68	10.4	35.6	5109
5N/02W-30J01M	65.0	10-20-67	(8) 21.0	44.0	5050
		11-16-67	(8) 22.0	43.0	5050
		3-18-68	(8) 21.9	43.1	5050
		4-16-68	(8) 22.1	42.9	5050
		5-13-68	18.8	46.2	5050
		9-17-68	19.6	45.4	5050
YGNACIO VALLEY 2-06.00					
1N/01W-07K01M	83.0	10-23-67	13.2	69.8	5050
		11-16-67	13.1	69.9	5050
		3-18-68	(1) 11.2	71.8	5050
		4-18-68	12.0	71.0	5050
		5-16-68	(1) 14.2	68.8	5050
		9-18-68	13.7	69.3	5050

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
YGNACIO VALLEY 2-06.00					
1N/02W-11N01M	63.0	10-23-67	12.8	50.2	5050
		11-16-67	12.7	50.3	5050
		3-18-68	11.2	51.8	5050
		4-18-68	12.2	50.8	5050
		5-16-68	(1) 15.5	47.5	5050
		9-19-68	15.0	48.0	5050
1N/02W-13P01M	100.0	3-18-68	8.5	91.5	5050
		4-18-68	(1) 10.2	89.8	5050
		5-16-68	9.2	90.8	5050
		9-18-68	10.5	89.5	5050
2N/02W-27R01M	15.0	10-23-67	(7)		5050
		11-16-67	4.9	10.1	5050
		3-18-68	3.0	12.0	5050
		4-18-68	3.7	11.3	5050
		5-16-68	4.8	10.2	5050
		9-18-68	6.8	8.2	5050
2N/02W-36E01M	48.0	10-23-67	17.1	30.9	5050
		11-16-67	16.5	31.5	5050
		3-18-68	14.0	34.0	5050
		4-18-68	15.3	32.7	5050
		5-16-68	16.0	32.0	5050
		9-18-68	14.2	33.8	5050
SANTA CLARA VALLEY 2-09.00					
EAST BAY AREA ABOVE NAYWARD FAULT 2-09.01					
4S/01W-35P03M	115.3	10-20-67	120.8	-5.5	5401
		11-17-67	112.1	3.2	5401
		12-15-67	107.4	7.9	5401
		1-12-68	103.0	12.3	5401
		2-23-68	97.4	17.9	5401
		3-15-68	94.2	21.1	5401
		4-26-68	98.5	16.8	5401
		5-24-68	108.1	7.2	5401
		6-07-68	113.1	2.2	5401
		7-19-68	122.6	-7.3	5401
		8-16-68	123.3	-8.0	5401
		9-13-68	118.2	-2.9	5401
EAST BAY AREA UPPER AQUIFER 2-09.01					
3S/02W-08N02M	48.0	10-04-67	18.4	29.6	5100
		11-01-67	18.2	29.8	5100
		12-06-67	17.4	30.6	5100
		1-04-68	(7)		5100
		2-07-68	(9)		5100
		3-06-68	(6)		5100
3S/02W-08M03M	48.0	4-00-68	18.0	30.0	5100
		6-05-68	18.0	30.0	5100
		7-03-68	18.4	29.6	5100
		7-31-68	18.7	29.3	5100
		9-05-68	18.2	29.8	5100
3S/02W-08R05M	64.0	10-30-67	34.0	30.0	5100
		4-00-68	31.8	32.2	5100
3S/02W-19J01M	30.0	10-04-67	10.8	19.2	5100
		11-01-67	10.4	19.6	5100
		12-06-67	9.8	20.2	5100
		1-04-68	11.8	18.2	5100
		2-07-68	11.5	18.5	5100
		3-06-68	11.5	18.5	5100
		4-03-68	10.4	19.6	5100
		5-01-68	9.7	20.3	5100
		6-05-68	9.8	20.2	5100
		7-03-68	10.0	20.0	5100
		7-31-68	10.3	19.7	5100
		9-05-68	10.2	19.8	5100
3S/03W-24Q02M	7.0	10-30-67	(1)		5100
		4-00-68	(1)		5100
4S/01W-18H03M	47.0	10-27-67	70.7	-23.7	5401
		11-24-67	70.5	-23.5	5401
		12-22-67	65.0	-18.0	5401
		1-19-68	60.9	-13.9	5401
		2-16-68	57.4	-10.4	5401
		3-15-68	54.6	-7.6	5401
		4-26-68	55.0	-8.0	5401
		5-24-68	53.9	-6.9	5401
		6-07-68	54.2	-7.2	5401
		7-19-68	57.4	-10.4	5401
		8-16-68	55.4	-8.4	5401
		9-13-68	55.0	-8.0	5401
4S/01W-22P05M	80.0	11-02-67	47.9	32.1	5100
		4-00-68	42.7	37.3	5100
4S/02W-13C02M	36.4	4-02-68	42.8	-6.4	5401
		9-19-68	42.1	-5.7	5401
4S/02W-24Q02M	33.4	11-02-67	62.9	-29.5	5100
		4-00-68	51.8	-18.4	5100
5S/01W-04F01M	40.9	10-20-67	59.0	-18.1	5401
		11-17-67	59.3	-18.4	5401
		12-15-67	(0)		5401
EAST BAY AREA LOWER AQUIFER 2-09.01					
2S/03W-36R01M	45.0	10-30-67	90.7	-45.7	5100
		4-00-68	84.2	-39.2	5100

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EAST BAY AREA LOWER AQUIFER 2-09.01					
3S/03W-24J01M	11.0	10-04-67	65.2	-54.2	5100
		11-01-67	64.0	-53.0	5100
		12-06-67	56.8	-45.8	5100
		1-04-68	66.6	-55.6	5100
		2-07-68	61.7	-50.7	5100
		3-06-68	59.0	-48.0	5100
		4-03-68	58.4	-47.4	5100
		5-01-68	61.0	-50.0	5100
		6-05-68	64.2	-53.2	5100
		7-03-68	67.2	-56.2	5100
		7-31-68	68.0	-57.0	5100
		9-05-68	68.7	-57.7	5100
3S/03W-36R03M	5.0	11-02-67	84.2	-79.2	5100
		4-00-68	72.8	-67.8	5100
4S/02W-02Q01M	26.0	4-03-68	59.0	-33.0	5401
		9-25-68	93.3	-67.3	5401
4S/02W-35R02M	15.0	10-20-67	57.8	-42.8	5401
		11-17-67	50.1	-35.1	5401
		12-15-67	41.5	-26.5	5401
		1-12-68	35.9	-20.9	5401
		2-23-68	31.1	-16.1	5401
		3-22-68	29.4	-14.4	5401
		4-19-68	32.0	-17.0	5401
		5-17-68	40.3	-25.3	5401
		6-14-68	45.8	-30.8	5401
		7-26-68	49.7	-34.7	5401
		8-23-68	45.3	-30.3	5401
		9-06-68	45.1	-30.1	5401
4S/02W-36K01M	24.0	10-28-66	83.3	-59.3	5401
		11-11-66	76.7	-52.7	5401
		12-23-66	65.1	-41.1	5401
		1-20-67	60.4	-36.4	5401
		2-17-67	55.0	-31.0	5401
		3-17-67	51.5	-27.5	5401
		4-21-67	45.7	-21.7	5401
		5-05-67	46.2	-22.2	5401
		6-23-67	58.1	-34.1	5401
		7-21-67	67.9	-43.9	5401
		8-18-67	71.1	-47.1	5401
		9-01-67	69.5	-45.5	5401
		10-20-67	69.9	-45.9	5401
		11-17-67	62.2	-38.2	5401
		12-15-67	53.5	-29.5	5401
		1-12-68	47.9	-23.9	5401
		2-23-68	43.0	-19.0	5401
		3-22-68	41.0	-17.0	5401
		4-19-68	44.0	-20.0	5401
		5-17-68	52.0	-28.0	5401
		6-14-68	57.2	-33.2	5401
		7-26-68	61.5	-37.5	5401
		8-23-68	57.3	-33.3	5401
		9-06-68	57.3	-33.3	5401
5S/01W-09M01M	15.0	4-08-68	33.2	-18.2	5401
		9-23-68	59.9	-44.9	5401
SOUTH BAY AREA 2-09.02					
6S/01E-07E01M	15.8	10-00-67	(6) 115.0	-99.2	2400
		11-28-67	(6) 112.0	-96.2	2400
		12-01-67	(6) 109.0	-93.2	2400
		1-01-68	(6) 100.0	-84.2	2400
		2-01-68	(6) 92.0	-76.2	2400
		3-26-68	(6) 86.0	-70.2	2400
		4-25-68	(6) 90.0	-74.2	2400
		5-22-68	(6) 110.0	-94.2	2400
		6-26-68	(6) 115.0	-99.2	2400
		7-01-68	(6) 113.0	-97.2	2400
		8-01-68	(6) 120.0	-104.2	2400
		9-01-68	(6) 110.0	-94.2	2400
6S/01E-21R01M	138.0	10-20-67	199.3	-61.3	2400
		11-27-67	193.3	-55.3	2400
		12-07-67	184.8	-46.8	2400
		1-15-68	180.2	-42.2	2400
		2-26-68	168.9	-30.9	2400
		3-25-68	161.4	-23.4	2400
		4-24-68	169.0	-31.0	2400
		5-21-68	175.5	-37.5	2400
		6-24-68	188.6	-50.6	2400
		7-24-68	194.8	-56.8	2400
		8-27-68	187.4	-49.4	2400
		9-23-68	187.2	-49.2	2400
6S/01E-23P02M	240.5	10-20-67	117.4	123.1	2400
		11-22-67	117.2	123.3	2400
		12-07-67	117.0	123.5	2400
		1-12-68	116.7	123.8	2400
		2-23-68	116.9	123.6	2400
		3-23-68	115.7	124.8	2400
		4-23-68	117.5	123.0	2400
		5-16-68	118.2	122.3	2400
		6-24-68	116.4	124.1	2400
		7-23-68	115.6	124.9	2400
		8-26-68	117.4	123.1	2400
		9-20-68	118.6	121.9	2400
6S/01E-30M01M	43.0	10-27-67	122.0	-79.0	2400
		11-28-67	(6) 120.0	-77.0	2400
		12-12-67	98.1	-55.1	2400
		1-16-68	(8) 89.0	-46.0	2400
		2-20-68	(8) 84.2	-41.2	2400
		3-18-68	(8) 79.6	-36.6	2400
		4-17-68	(2) 88.6	-45.6	2400
		5-09-68	(2) 112.2	-69.2	2400

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTH BAY AREA 2-09.02					
6S/01E-30M01M	43.0	6-13-68	(8) 120.6	-77.6	2400
(Continued)		7-25-68	(6) 126.0	-83.0	2400
		8-01-68	(6) 126.0	-83.0	2400
		9-01-68	(6) 124.0	-81.0	2400
6S/01W-23E01M	21.0	10-23-67	128.3	-107.3	5000
		11-20-67	101.9	-80.9	5000
		12-18-67	87.0	-66.0	5000
		1-15-68	79.5	-58.5	5000
		2-12-68	72.5	-51.5	5000
		3-10-68	68.2	-47.2	5000
		4-08-68	68.7	-47.7	5000
		5-06-68	131.1	-110.1	5000
		6-03-68	100.7	-79.7	5000
		7-29-68	136.1	-115.1	5000
		8-26-68	119.5	-98.5	5000
		9-26-68	133.1	-112.1	5000
6S/02W-16R01M	48.0	10-18-67	118.6	-70.6	2400
		11-29-67	(7)		2400
		12-14-67	100.1	-52.1	2400
		1-16-68	98.2	-50.2	2400
		2-26-68	95.8	-47.8	2400
		3-22-68	96.0	-48.0	2400
		4-18-68	99.0	-51.0	2400
		5-14-68	100.3	-52.3	2400
		6-19-68	103.0	-55.0	2400
		7-23-68	113.9	-65.9	2400
		8-19-68	112.8	-64.8	2400
		9-19-68	102.7	-54.7	2400
6S/02W-25C01M	73.0	11-01-67	(8) 134.0	-61.0	2400
		11-28-67	(8) 127.0	-54.0	2400
		12-12-67	(8) 124.9	-51.9	2400
		1-17-68	(8) 126.5	-53.5	2400
		2-21-68	(8) 126.0	-53.0	2400
		3-21-68	(8) 122.4	-49.4	2400
		4-17-68	(8) 137.3	-64.3	2400
		5-10-68	(8) 121.0	-48.0	2400
		6-19-68	(8) 123.0	-50.0	2400
		7-26-68	(8) 131.6	-58.6	2400
		8-15-68	(8) 124.0	-51.0	2400
		9-23-68	(8) 119.9	-46.9	2400
6S/02W-35C01M	140.1	11-01-67	260.8	-120.7	2400
		11-28-67	(6) 254.0	-113.9	2400
		12-01-67	(6) 254.0	-113.9	2400
		1-01-68	(6) 250.0	-109.9	2400
		2-23-68	(6) 254.0	-113.9	2400
		3-22-68	(6) 252.0	-111.9	2400
		4-15-68	225.0	-84.9	2400
		5-14-68	243.4	-103.3	2400
		6-19-68	258.2	-118.1	2400
		7-29-68	264.6	-124.5	2400
		8-15-68	254.3	-114.2	2400
		9-01-68	(6) 258.0	-117.9	2400
7S/01E-01K01M	179.0	10-19-67	(6) 188.0	-9.0	2400
		11-28-67	(6) 182.0	-3.0	2400
		12-01-67	(6) 180.0	-1.0	2400
		1-01-68	(6) 178.0	1.0	2400
		2-01-68	(6) 177.0	2.0	2400
		3-21-68	(6) 174.0	5.0	2400
		4-24-68	(6) 172.0	7.0	2400
		5-06-68	160.9	18.1	2400
		6-24-68	160.6	18.4	2400
		7-22-68	161.8	17.2	2400
		8-26-68	163.6	15.4	2400
		9-20-68	168.5	10.5	2400
7S/01E-08L01M	88.0	10-28-67	(6) 155.0	-67.0	2400
		11-28-67	(6) 150.0	-62.0	2400
		12-01-67	(6) 150.0	-62.0	2400
		1-25-68	123.3	-35.3	2400
		2-27-68	124.2	-36.2	2400
		3-26-68	124.7	-36.7	2400
		4-01-68	(6) 127.0	-39.0	2400
		5-01-68	(6) 160.0	-72.0	2400
		6-27-68	(8) 144.2	-56.2	2400
		7-25-68	(8) 156.7	-68.7	2400
		8-22-68	(6) 160.0	-72.0	2400
		9-01-68	(6) 156.0	-68.0	2400
7S/01E-09D02M	95.9	10-23-67	171.6	-75.7	5000
		11-20-67	157.9	-62.0	5000
		12-18-67	147.6	-51.7	5000
		1-15-68	141.7	-45.8	5000
		2-12-68	139.6	-43.7	5000
		3-10-68	131.2	-35.3	5000
		4-08-68	131.2	-35.3	5000
		5-06-68	144.3	-48.4	5000
		6-03-68	147.4	-51.5	5000
		7-29-68	167.5	-71.6	5000
		8-26-68	166.1	-70.2	5000
		9-26-68	172.3	-76.4	5000
7S/01E-16C05M	105.0	10-23-67	234.7	-129.7	5000
		11-20-67	198.8	-93.8	5000
		12-18-67	185.4	-80.4	5000
		1-15-68	173.7	-68.7	5000
		2-12-68	165.2	-60.2	5000
		3-10-68	159.8	-54.8	5000
		4-08-68	162.4	-57.4	5000
		5-06-68	186.6	-81.6	5000
		6-03-68	192.9	-87.9	5000
		7-29-68	228.0	-123.0	5000
		8-26-68	220.5	-115.5	5000
		9-26-68	241.4	-136.4	5000

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTH BAY AREA 2-09.02					
7S/01E-31A02M	151.6	10-19-67	(1) 156.0	-4.4	2400
		11-25-67	153.7	-2.1	2400
		12-04-67	150.0	1.6	2400
		1-03-68	151.6	0.0	2400
		2-09-68	145.7	5.9	2400
		3-05-68	141.5	10.1	2400
		4-03-68	136.7	14.9	2400
		5-07-68	141.4	10.2	2400
		6-11-68	145.7	5.9	2400
		7-19-68	152.6	-1.0	2400
		8-13-68	157.6	-6.0	2400
		9-18-68	(1) 165.0	-13.4	2400
7S/02E-07P01M	130.0	10-20-67	137.3	-7.3	2400
		11-28-67	135.2	-5.2	2400
		12-07-67	131.0	-1.0	2400
		1-12-68	129.3	0.7	2400
		2-23-68	128.9	1.1	2400
		3-21-68	128.3	1.7	2400
		4-24-68	139.9	-9.9	2400
		5-16-68	133.5	-3.5	2400
		6-24-68	135.8	-5.8	2400
		7-22-68	134.6	-4.6	2400
		8-26-68	133.7	-3.7	2400
		9-20-68	137.3	-7.3	2400
7S/02E-17H01M	349.0	10-11-67	(8) 94.4	254.6	2400
		11-21-67	(8) 93.9	255.1	2400
		12-12-67	(8) 97.3	251.7	2400
		1-11-68	(8) 96.8	252.2	2400
		2-21-68	(8) 91.2	257.8	2400
		3-21-68	(8) 91.7	257.3	2400
		4-18-68	(8) 92.5	256.5	2400
		5-15-68	(8) 93.3	255.7	2400
		6-21-68	92.2	256.8	2400
		7-17-68	94.4	254.6	2400
		8-29-68	93.4	255.6	2400
		9-17-68	93.7	255.3	2400
7S/02E-33C01M	462.0	10-11-67	21.4	440.6	2400
		11-21-67	20.7	441.3	2400
		12-12-67	20.0	442.0	2400
		1-11-68	20.3	441.7	2400
		2-21-68	19.6	442.4	2400
		3-20-68	20.5	441.5	2400
		4-17-68	20.8	441.2	2400
		5-15-68	20.2	441.8	2400
		6-21-68	20.8	441.2	2400
		7-17-68	21.7	440.3	2400
		8-29-68	21.4	440.6	2400
		9-16-68	20.3	441.7	2400
7S/01W-35C01M	202.0	10-11-67	187.0	15.0	2400
		11-29-67	(6) 188.0	14.0	2400
		12-01-67	(6) 192.0	10.0	2400
		1-01-68	193.0	9.0	2400
		2-01-68	224.0	-22.0	2400
		3-01-68	220.0	-18.0	2400
		4-01-68	211.0	-9.0	2400
		5-01-68	236.0	-34.0	2400
		6-01-68	245.0	-43.0	2400
		7-01-68	250.0	-48.0	2400
		8-01-68	254.0	-52.0	2400
		9-01-68	260.0	-58.0	2400
7S/02W-03P01M	216.7	10-01-67	(1) 364.0	-147.3	2400
		11-03-67	(1) 343.0	-126.3	2400
		11-30-67	(3) 352.0	-135.3	2400
		12-01-67	355.0	-138.3	2400
		1-01-68	390.0	-173.3	2400
		2-01-68	323.0	-106.3	2400
		3-04-68	318.0	-101.3	2400
		4-01-68	310.0	-93.3	2400
		5-01-68	327.0	-110.3	2400
		6-01-68	335.0	-118.3	2400
		7-01-68	339.0	-122.3	2400
		8-01-68	(6) 339.0	-122.3	2400
		9-01-68	339.0	-122.3	2400
7S/02W-04B01M	218.0	11-01-67	194.0	24.0	2400
		12-04-67	196.1	21.9	2400
		1-17-68	194.2	23.8	2400
		2-26-68	219.6	-1.6	2400
		3-25-68	233.6	-15.6	2400
		4-18-68	(3) 229.8	-11.8	2400
		5-14-68	228.0	-10.0	2400
		6-20-68	225.7	-7.7	2400
		7-11-68	226.0	-8.0	2400
		8-19-68	226.3	-8.3	2400
		9-19-68	229.7	-11.7	2400
7S/02W-22A01M	340.0	11-01-67	(6) 24.7	315.3	2400
		12-04-67	(6) 24.5	315.5	2400
		1-17-68	(6) 23.8	316.2	2400
		2-26-68	(6) 26.5	313.5	2400
		3-25-68	28.1	311.9	2400
		4-18-68	27.7	312.3	2400
		5-01-68	(6) 35.0	305.0	2400
		6-20-68	32.1	307.9	2400
		7-30-68	26.2	313.8	2400
		8-20-68	27.1	312.9	2400
		9-23-68	28.9	311.1	2400

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTH BAY AREA 2-09.02					
8S/01E-07H02M	207.0	10-05-67	56.6	150.4	2400
		11-07-67	59.0	148.0	2400
		12-05-67	63.2	143.8	2400
		1-08-68	65.5	141.5	2400
		2-13-68	57.2	149.8	2400
		3-01-68	56.8	150.2	2400
		4-02-68 (6)	53.0	154.0	2400
		5-01-68	55.4	151.6	2400
		6-03-68	57.2	149.8	2400
		7-01-68	(9)		2400
		8-01-68	56.7	150.3	2400
		9-06-68	56.4	150.6	2400
8S/01E-13H01M	184.6	10-06-67 (2)	28.5	156.1	2400
		11-06-67 (6)	29.0	155.6	2400
		12-01-67 (6)	27.0	157.6	2400
		1-01-68 (6)	30.0	154.6	2400
		2-15-68 (8)	21.0	163.6	2400
		3-06-68	20.7	163.9	2400
		4-04-68 (8)	21.8	162.8	2400
		5-03-68 (2)	27.3	157.3	2400
		6-05-68	28.2	156.4	2400
		7-03-68	27.4	157.2	2400
		8-02-68	25.9	158.7	2400
		9-10-68 (8)	23.7	160.9	2400
8S/02E-20F03M	209.0	10-07-67	28.3	180.7	2400
		11-08-67	(1)		2400
		12-05-67	26.4	182.6	2400
		1-11-68	30.0	179.0	2400
		2-15-68	26.0	183.0	2400
		3-08-68	27.2	181.8	2400
		4-05-68	27.8	181.2	2400
		5-06-68 (2)	33.3	175.7	2400
		6-10-68	37.2	171.8	2400
		7-05-68 (1)	37.0	172.0	2400
		8-19-68	30.3	178.7	2400
		9-11-68 (8)	30.3	178.7	2400
8S/02E-22001M	239.7	10-07-67 (8)	10.5	229.2	2400
		11-08-67	10.4	229.3	2400
		12-05-67	11.6	228.1	2400
		1-11-68 (8)	14.2	225.5	2400
		2-16-68	12.6	227.1	2400
		3-08-68	13.1	226.6	2400
		4-05-68	12.4	227.3	2400
		5-06-68 (1)	13.6	226.1	2400
		6-10-68	13.8	225.9	2400
		7-10-68	11.6	228.1	2400
		8-19-68	11.1	228.6	2400
		9-04-68	10.7	229.0	2400
8S/01W-15B01M	331.2	10-19-67	35.4	295.8	2400
		11-21-67 (6)	34.0	297.2	2400
		12-01-67 (6)	34.0	297.2	2400
		1-01-68 (6)	34.0	297.2	2400
		2-01-68 (6)	34.0	297.2	2400
		3-07-68 (6)	28.5	302.7	2400
		4-01-68 (6)	24.0	307.2	2400
		5-01-68 (6)	30.0	301.2	2400
		6-11-68	32.3	298.9	2400
		7-19-68 (6)	33.0	298.2	2400
		8-20-68	31.8	299.4	2400
		9-19-68 (6)	33.0	298.2	2400
9S/02E-01J01M	314.6	10-10-67	32.6	282.0	2400
		11-16-67 (8)	34.8	279.8	2400
		12-07-67 (8)	30.9	283.7	2400
		1-15-68	38.8	275.8	2400
		2-19-68	37.4	277.2	2400
		3-13-68 (8)	38.2	276.4	2400
		4-11-68	33.7	280.9	2400
		5-09-68	47.4	267.2	2400
		6-12-68	55.2	259.4	2400
		7-10-68	37.3	277.3	2400
		8-01-68	36.0	278.6	2400
		9-04-68	31.8	282.8	2400
*9S/02E-02J02M	287.6	10-07-67	22.3	265.3	2400
		11-19-67	24.8	262.8	2400
		12-05-67	25.9	261.7	2400
		1-11-68	30.0	257.6	2400
		2-16-68	26.4	261.2	2400
		3-11-68	26.0	261.6	2400
		4-08-68	25.2	262.4	2400
		5-08-68	29.7	257.9	2400
		6-10-68	31.9	255.7	2400
		7-09-68 (2)	34.4	253.2	2400
		8-01-68	27.4	260.2	2400
		9-04-68	26.0	261.6	2400
LIVERMORE VALLEY 2-10.00					
2S/02E-25N01M	555.3	10-00-67	9.6	545.7	5100
		4-00-68	9.9	545.4	5100
2S/01W-26C01M	416.9	10-00-67	37.5	379.4	5100
		4-00-68	36.9	380.0	5100
3S/01E-07Q01M	321.7	10-04-67	114.2	207.5	5100
		11-01-67	109.0	212.7	5100
		12-06-67	(7)		5100
		1-03-68	(7)		5100
		2-07-68	(7)		5100
		3-06-68	(9)		5100
		4-03-68	(9)		5100
		5-01-68	(9)		5100

*Previously published under 9S/02E-01M01M.

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LIVERMORE VALLEY 2-10.00					
3S/01E-07Q01M (Continued)	321.7	6-05-68	(9)		5100
		7-03-68	(9)		5100
		8-09-68	(9)		5100
		9-05-68	(0)		5100
3S/01E-09R02M	353.2	10-04-67	149.5	203.7	5100
		11-01-67	103.4	249.8	5100
		12-06-67	85.0	268.2	5100
		1-03-68	93.3	259.9	5100
		2-07-68	88.1	265.1	5100
		3-06-68	88.2	265.0	5100
		4-03-68	90.7	262.5	5100
		5-01-68	88.8	264.4	5100
		6-05-68 (1)	112.0	241.2	5100
		7-03-68 (1)	121.0	232.2	5100
		8-09-68	156.1	197.1	5100
		9-05-68	137.6	215.6	5100
3S/01E-10Q02M	368.7	10-04-67	131.2	237.5	5100
		11-01-67	125.5	243.2	5100
		12-06-67	107.0	261.7	5100
		1-03-68	102.5	266.2	5100
		2-07-68	100.0	268.7	5100
		3-06-68	102.5	266.2	5100
		4-03-68	100.5	268.2	5100
		5-01-68	100.5	268.2	5100
		6-05-68 (1)	124.5	244.2	5100
		7-03-68 (1)	129.5	239.2	5100
		8-09-68	121.5	247.2	5100
		9-05-68	122.5	246.2	5100
3S/01E-11H01M	372.9	10-00-67	124.8	248.1	5100
		4-00-68	110.5	262.4	5100
3S/01E-17R01M	347.0	10-04-67 (3)	112.8	234.2	5100
		11-01-67 (3)	121.8	225.2	5100
		12-06-67 (3)	115.8	231.2	5100
		1-03-68	112.8	234.2	5100
		2-07-68	110.8	236.2	5100
		3-06-68	109.8	237.2	5100
		4-03-68	109.8	237.2	5100
		5-01-68	112.8	234.2	5100
		6-05-68	113.8	233.2	5100
		7-03-68	118.8	228.2	5100
		8-09-68	112.0	235.0	5100
		9-05-68	117.9	229.1	5100
3S/01E-19A03M	328.0	10-04-67	113.7	214.3	5100
		11-01-67	111.7	216.3	5100
		12-06-67	104.7	223.3	5100
		1-03-68	101.7	226.3	5100
		2-07-68	101.2	226.8	5100
		3-06-68	94.7	233.3	5100
		4-03-68	92.5	235.5	5100
		5-01-68	92.9	235.1	5100
		6-05-68	95.7	232.3	5100
		7-03-68	108.7	219.3	5100
		7-31-68	110.4	217.6	5100
		9-05-68	112.5	215.5	5100
3S/02E-10H01M	551.0	10-00-67	109.0	442.0	5100
		4-00-68	92.1	458.9	5100
3S/02E-16E02M	508.0	10-04-67	100.1	407.9	5100
		11-01-67	100.0	408.0	5100
		12-06-67	99.7	408.3	5100
		1-03-68	99.4	408.6	5100
		2-07-68	98.6	409.4	5100
		3-06-68	101.9	406.1	5100
		4-03-68	98.2	409.8	5100
		5-01-68	98.4	409.6	5100
		6-05-68	99.6	408.4	5100
		7-03-68	99.4	408.6	5100
		8-09-68	102.9	405.1	5100
		9-05-68	102.9	405.1	5100
3S/02E-19D01M	411.6	10-04-67	159.5	252.1	5100
		11-01-67	159.4	252.2	5100
		12-06-67	155.0	256.6	5100
		1-03-68	152.5	259.1	5100
		2-07-68	153.4	258.2	5100
		3-06-68	153.2	258.4	5100
		4-03-68	151.9	259.7	5100
		5-01-68	154.4	257.2	5100
		6-05-68	164.0	247.6	5100
		7-03-68	171.1	240.5	5100
		8-09-68	184.8	226.8	5100
		9-05-68	191.1	220.5	5100
HALF MOON BAY TERRACE 2-22.00					
5S/05W-19J01M	53.0	4-08-68	17.8	35.2	5050
5S/05W-20L01M	73.0	10-20-67	26.9	46.1	5050
		11-13-67	25.5	47.5	5050
		3-19-68	17.6	55.4	5050
		4-08-68	14.9	58.1	5050
		5-17-68	15.8	57.2	5050
		9-17-68 (1)	25.2	47.8	5050
5S/05W-29F04M	50.0	10-20-67 (1)	20.5	29.5	5050
		11-13-67 (4)	20.2	29.8	5050
		3-19-68 (1)	11.7	38.3	5050
		4-08-68	10.7	39.3	5050
		5-13-68	14.5	35.5	5050
		9-17-68	18.7	31.3	5050

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
HALF MOON BAY TERRACE 2-22.00					
5S/05W-29N01M	46.0	4-08-68	28.5	17.5	5050
5S/05W-32K01M	90.0	10-20-67	28.3	61.7	5050
		11-13-67	27.3	62.7	5050
		3-19-68	26.3	63.7	5050
		4-08-68	26.1	63.9	5050
		5-13-68	27.3	62.7	5050
		9-17-68	29.8	60.2	5050
5S/06W-10J01M	35.0	4-08-68	FLOW		5050
6S/05W-08A01M	108.0	11-13-67 (2)	58.4	49.6	5050
6S/05W-08B01M	108.0	10-20-67 (2)	60.2	47.8	5050
		11-13-67	(4)		5050
		3-19-68	56.0	52.0	5050
		4-08-68	56.0	52.0	5050
		5-13-68	56.2	51.8	5050
		9-17-68	58.0	50.0	5050
SAN GREGORIO VALLEY 2-24.00					
7S/05W-14C01M	80.0	10-20-67	12.1	67.9	5050
		11-13-67	12.6	67.4	5050
		3-19-68	10.6	69.4	5050
		4-08-68	11.4	68.6	5050
		5-17-68	(9)		5050
		9-17-68	13.3	66.7	5050
7S/05W-15C01M	80.0	4-08-68	7.3	72.7	5050
7S/05W-15E01M	75.2	4-08-68	1.9	73.3	5050
7S/05W-15E02M	30.0	10-20-67	14.2	15.8	5050
		11-13-67	14.2	15.8	5050
		3-19-68	11.5	18.5	5050
		4-08-68	13.2	16.8	5050
		5-17-68	12.8	17.2	5050
		9-17-68	15.3	14.7	5050
7S/05W-15H02M	40.0	4-08-68	(9)		5050
PESCADERO VALLEY 2-26.00					
8S/05W-09H01M	20.0	10-20-67	4.3	15.7	5050
		11-13-67	4.3	15.7	5050
		3-19-68	3.3	16.7	5050
		4-08-68	3.5	16.5	5050
		5-17-68	2.7	17.3	5050
		9-17-68	5.0	15.0	5050
8S/05W-10F01M	25.0	4-18-68 (1)	11.5	13.5	5050
8S/05W-10H01M	40.0	4-09-68	3.7	36.3	5050
8S/05W-10K01M	37.0	10-20-67	18.0	19.0	5050
		11-13-67 (4)	18.3	18.7	5050
		3-19-68 (4)	11.9	25.1	5050
		4-08-68	12.9	24.1	5050
		5-17-68	14.8	22.2	5050
		9-17-68 (1)	18.8	18.2	5050
8S/05W-11F01M	70.0	10-20-67	15.5	54.5	5050
		11-13-67	15.0	55.0	5050
		3-19-68	6.0	64.0	5050
		4-08-68	6.9	63.1	5050
		5-17-68	9.5	60.5	5050
		9-17-68	16.0	54.0	5050
8S/05W-11K02M	60.0	4-08-68	1.7	58.3	5050
8S/05W-11M01M	45.0	4-09-68	13.0	32.0	5050
CENTRAL COASTAL REGION 3-00.00					
SOQUEL VALLEY 3-01.00					
11S/01W-09L01M	124.2	10-19-67	55.6	68.6	5050
		11-14-67	55.4	68.8	5050
		12-11-67	55.2	69.0	5102
		1-19-68	57.3	66.9	5102
		3-19-68	56.1	68.1	5050
		4-18-68	56.0	68.2	5050
		5-15-68	58.5	65.7	5102
		5-16-68	56.3	67.9	5050
		6-19-68	56.8	67.4	5102
		7-23-68	56.4	67.8	5102
		8-21-68	55.7	68.5	5102
		9-16-68	56.6	67.6	5050
11S/01W-10C01M	90.0	10-19-67	60.3	29.7	5050
		11-14-67	60.4	29.6	5050
		12-11-67	61.1	28.9	5102
		1-19-68	62.4	27.6	5102
		3-19-68	60.1	29.9	5050
		4-18-68	59.6	30.4	5050
		5-15-68	59.9	30.1	5102
		5-16-68	60.2	29.8	5050
		6-19-68	60.3	29.7	5102
		7-23-68	64.9	25.1	5102
		8-21-68	62.0	28.0	5102
		9-16-68	61.4	28.6	5050

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOQUEL VALLEY 3-01.00					
11S/01W-15E02M	87.0	10-19-67 (2)	70.0	17.0	5050
		11-14-67	55.9	31.1	5050
		1-19-68 (2)	55.9	31.1	5102
		3-19-68	56.3	30.7	5050
		4-18-68 (2)	57.8	29.2	5050
		5-15-68 (2)	58.0	29.0	5050
		6-19-68 (2)	56.8	30.2	5102
		7-23-68 (2)	61.2	25.8	5102
		8-21-68 (2)	55.4	31.6	5102
		9-16-68 (2)	59.0	28.0	5050
PAJARO VALLEY 3-02.00					
11S/02E-27A01M	141.0	10-19-67	95.9	45.1	5050
		11-14-67	95.2	45.8	5050
		3-19-68	94.5	46.5	5050
		4-18-68	103.2	37.8	5050
		5-16-68	103.5	37.5	5050
12S/01E-24G01M	9.4	10-19-67	14.4	-5.0	5050
		11-14-67	8.8	0.6	5050
		3-19-68	1.1	8.3	5050
		4-18-68	11.0	-1.6	5050
		5-15-68	11.3	-1.9	5050
12S/02E-11E04M	36.0	10-19-67	28.2	7.8	5050
		11-14-67	24.2	11.8	5050
		3-20-68	19.9	16.1	5050
		4-18-68	28.4	7.6	5050
		5-15-68	27.2	8.8	5050
12S/02E-16J01M	20.5	10-19-67	20.7	-0.2	5050
		11-14-67	16.7	3.8	5050
		3-19-68	9.7	10.8	5050
		4-18-68	18.9	1.6	5050
		5-16-68	18.9	1.6	5050
12S/02E-31K01M	30.0	12-15-67	29.1	0.9	2100
13S/01E-01A01M	5.0	12-15-67	2.7	2.3	2100
13S/02E-05B01M	136.0	10-19-67	141.8	-5.8	5050
		11-14-67	140.0	-4.0	5050
		3-20-68	135.4	0.6	5050
		4-18-68	147.6	-11.6	5050
		5-15-68	135.4	0.6	5050
13S/02E-06B01M	15.0	10-19-67	17.8	-2.8	5050
		11-14-67	16.6	-1.6	5050
		3-20-68	12.7	2.3	5050
		4-18-68	12.5	2.5	5050
		5-15-68	13.3	1.7	5050
13S/02E-06C01M	26.0	12-15-67	23.5	2.5	2100
13S/02E-06E02M	27.8	12-15-67	24.8	3.0	2100
13S/02E-06E03M	30.0	12-15-67	26.4	3.6	2100
GILROY-HOLLISTER VALLEY 3-03.00					
SOUTH SANTA CLARA COUNTY 3-03.01					
9S/03E-16J01M	385.7	10-09-67	99.8	285.9	2400
		11-14-67	105.6	280.1	2400
		12-06-67	106.8	278.9	2400
		1-12-68	101.5	284.2	2400
		2-16-68	102.5	283.2	2400
		3-11-68	103.1	282.6	2400
		4-10-68	104.6	281.1	2400
		5-08-68	113.2	272.5	2400
		6-12-68	115.4	270.3	2400
		7-10-68	108.8	276.9	2400
		8-19-68	104.3	281.4	2400
		9-11-68	103.7	282.0	2400
9S/03E-21K02M	361.6	10-09-67	72.6	289.0	2400
		11-14-67	75.9	285.7	2400
		12-06-67	77.7	283.9	2400
		1-12-68	60.0	301.6	2400
		2-19-68	64.6	297.0	2400
		3-11-68	63.8	297.8	2400
		4-10-68	(1)		2400
		5-09-68	(1)		2400
		6-12-68	82.2	279.4	2400
		7-10-68	84.3	277.3	2400
		8-19-68	95.7	265.9	2400
		9-11-68	90.4	271.2	2400
9S/03E-22B03M	379.1	10-09-67	(1)		2400
		11-15-67	88.7	290.4	2400
		12-06-67	86.6	292.5	2400
		1-15-68	84.6	294.5	2400
		2-19-68	88.4	290.7	2400
		3-12-68	82.8	296.3	2400
		4-10-68	83.6	295.5	2400
		5-09-68	87.7	291.4	2400
		6-13-68	(1)		2400
		7-10-68	100.3	278.8	2400
		8-20-68	100.4	278.7	2400
		9-11-68	(1)		2400

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTH SANTA CLARA COUNTY 3-03.01					
9S/03E-23E01M	362.5	10-09-67	101.8	260.7	2400
		11-15-67	113.2	249.3	2400
		12-07-67	90.7	271.8	2400
		1-15-68	83.3	279.2	2400
		2-19-68	86.9	275.6	2400
		3-12-68	88.4	274.1	2400
		4-10-68	89.2	273.3	2400
		5-09-68	94.8	267.7	2400
		6-13-68	(1)		2400
		7-10-68	(1)		2400
		8-20-68	(1)		2400
		9-11-68	120.0	242.5	2400
9S/03E-26P01M	329.1	10-09-67	(2) 77.7	251.4	2400
		11-15-67	64.9	264.2	2400
		12-07-67	59.2	269.9	2400
		1-15-68	59.5	269.6	2400
		2-19-68	58.4	270.7	2400
		3-12-68	57.3	271.8	2400
		4-10-68	(1)		2400
		5-09-68	(4) 69.7	259.4	2400
		6-13-68	(1)		2400
		7-11-68	(4) 97.6	231.5	2400
		8-01-68	(1)		2400
		9-11-68	86.4	242.7	2400
9S/03E-27C02M	347.0	10-09-67	64.3	282.7	2400
		11-15-67	67.0	280.0	2400
		12-07-67	65.7	281.3	2400
		1-15-68	64.7	282.3	2400
		2-19-68	62.1	284.9	2400
		3-12-68	63.7	283.3	2400
		4-10-68	62.9	284.1	2400
		5-27-68	71.8	275.2	2400
		6-13-68	82.0	265.0	2400
		7-11-68	61.3	285.7	2400
		8-01-68	(1)		2400
		9-11-68	92.8	254.2	2400
9S/03E-29B01M	397.6	4-09-68	11.5	386.1	5050
9S/03E-34D02M	327.0	10-09-67	60.6	266.4	2400
		11-15-67	62.9	264.1	2400
		12-07-67	54.3	272.7	2400
		1-15-68	49.6	277.4	2400
		2-19-68	48.4	278.6	2400
		3-12-68	48.7	278.3	2400
		4-11-68	(7)		2400
		5-09-68	(2) 58.8	268.2	2400
		6-13-68	68.7	258.3	2400
		7-11-68	67.5	259.5	2400
		8-20-68	(2) 77.7	249.3	2400
		9-11-68	(2) 84.6	242.4	2400
9S/03E-34Q01M	314.2	10-09-67	42.8	271.4	2400
		11-15-67	(1)		2400
		12-07-67	38.2	276.0	2400
		1-15-68	37.9	276.3	2400
		2-19-68	37.6	276.6	2400
		3-12-68	36.4	277.8	2400
		4-11-68	(7)		2400
		5-09-68	43.3	270.9	2400
		6-13-68	48.6	265.6	2400
		7-11-68	53.4	260.8	2400
		8-20-68	58.9	255.3	2400
		9-12-68	55.5	258.7	2400
9S/03E-36E02M	309.3	10-10-67	84.9	224.4	2400
		11-15-67	77.4	231.9	2400
		12-07-67	75.2	234.1	2400
		1-15-68	57.5	251.8	2400
		2-19-68	56.9	252.4	2400
		3-12-68	57.3	252.0	2400
		4-11-68	(7)		2400
		5-09-68	78.7	230.6	2400
		6-13-68	87.6	221.7	2400
		7-11-68	89.9	219.4	2400
		8-20-68	99.2	210.1	2400
		9-12-68	97.8	211.5	2400
9S/03E-36F03M	322.0	10-09-67	83.3	238.7	2400
		11-15-67	85.4	236.6	2400
		12-07-67	81.5	240.5	2400
		1-15-68	78.2	243.8	2400
		2-19-68	79.5	242.5	2400
		3-12-68	77.4	244.6	2400
		4-11-68	(7)		2400
		5-09-68	94.3	227.7	2400
		6-13-68	101.4	220.6	2400
		7-11-68	105.5	216.5	2400
		8-20-68	118.8	203.2	2400
		9-12-68	119.5	202.5	2400
10S/03E-02K03M	290.0	10-19-67	39.9	250.1	5050
		11-14-67	40.0	250.0	5050
		3-21-68	41.9	248.1	5050
		4-09-68	41.7	248.3	5050
		5-14-68	48.9	241.1	5050
10S/03E-13J03M	251.0	10-19-67	38.0	213.0	5050
		11-14-67	35.6	215.4	5050
		3-21-68	37.9	213.1	5050
		4-15-68	47.2	203.8	5050
		5-14-68	51.1	199.9	5050
10S/03E-36E03M	220.0	10-19-67	36.8	183.2	5050
		11-14-67	34.6	185.4	5050
		3-20-68	34.0	186.0	5050
		4-15-68	35.8	184.2	5050
		5-14-68	33.6	186.4	5050

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTH SANTA CLARA COUNTY 3-03.01					
10S/04E-18G02M	259.5	10-19-67	51.5	208.0	5050
		11-14-67	49.9	209.6	5050
		3-21-68	51.1	208.4	5050
		4-15-68	50.4	209.1	5050
		5-14-68	57.8	201.7	5050
10S/04E-31G04M	197.5	10-16-67	26.5	171.0	5200
		11-27-67	23.5	174.0	5200
		12-18-67	22.5	175.0	5200
		1-15-68	21.5	176.0	5200
		2-19-68	20.5	177.0	5200
		3-18-68	19.5	178.0	5200
		4-15-68	19.5	178.0	5200
		5-20-68	29.5	168.0	5200
		6-17-68	34.5	163.0	5200
		7-15-68	42.5	155.0	5200
		8-19-68	44.5	153.0	5200
		9-16-68	45.5	152.0	5200
10S/04E-35E01M	248.0	4-15-68	79.8	168.2	5050
11S/04E-06B01M	197.2	10-16-67	(7)		5200
		11-27-67	(7)		5200
		12-18-67	(7)		5200
		1-15-68	(7)		5200
		2-19-68	(7)		5200
		3-18-68	(7)		5200
		4-15-68	(7)		5200
		5-20-68	(7)		5200
		6-17-68	(7)		5200
		7-15-68	(9)		5200
		8-19-68	(3)		5200
		9-16-68	53.0	144.2	5200
11S/04E-06D01M	211.0	10-16-67	46.0	165.0	5200
		11-27-67	44.0	167.0	5200
		12-18-67	42.0	169.0	5200
		1-15-68	40.0	171.0	5200
		2-19-68	38.0	173.0	5200
		3-18-68	39.0	172.0	5200
		4-15-68	37.0	174.0	5200
		5-20-68	48.0	163.0	5200
		6-17-68	53.0	158.0	5200
		7-15-68	63.0	148.0	5200
		8-19-68	63.0	148.0	5200
		9-16-68	65.0	146.0	5200
11S/04E-06H01M	191.5	10-16-67	29.0	162.5	5200
		11-27-67	26.0	165.5	5200
		12-18-67	24.0	167.5	5200
		1-15-68	23.0	168.5	5200
		2-19-68	22.0	169.5	5200
		3-18-68	21.0	170.5	5200
		4-15-68	20.0	171.5	5200
		5-20-68	31.0	160.5	5200
		6-17-68	36.0	155.5	5200
		7-15-68	44.0	147.5	5200
		8-19-68	48.0	143.5	5200
		9-16-68	46.0	145.5	5200
11S/04E-06P02M	201.7	10-16-67	35.0	166.7	5200
		11-27-67	32.0	169.7	5200
		12-18-67	31.0	170.7	5200
		1-15-68	29.0	172.7	5200
		2-19-68	29.0	172.7	5200
		3-18-68	28.0	173.7	5200
		4-15-68	27.0	174.7	5200
		5-20-68	35.0	166.7	5200
		6-17-68	39.0	162.7	5200
		7-15-68	45.0	156.7	5200
		8-19-68	46.0	155.7	5200
		9-16-68	57.0	144.7	5200
11S/04E-08K02M	179.0	10-19-67	21.7	157.3	5050
		11-14-67	20.2	158.8	5050
		3-20-68	15.0	164.0	5050
		4-16-68	15.7	163.3	5050
		5-14-68	21.4	157.6	5050
SAN BENITO COUNTY 3-03.02					
11S/05E-13D01M	255.7	10-19-67	22.5	233.2	5050
		11-14-67	22.2	233.5	5050
		3-20-68	18.6	237.1	5050
		4-17-68	29.9	225.8	5050
		5-14-68	34.0	221.7	5050
12S/04E-20C01M	152.9	2-07-68	25.4	127.5	5151
12S/05E-10R01M	211.6	10-19-67	85.1	126.5	5050
		11-14-67	83.9	127.7	5050
		3-20-68	78.6	133.0	5050
		4-17-68	76.9	134.7	5050
		5-14-68	78.8	132.8	5050
12S/05E-12M04M	215.0	10-19-67	79.3	135.7	5050
		11-14-67	78.7	136.3	5050
		3-20-68	75.6	139.4	5050
		4-17-68	76.5	138.5	5050
		5-14-68	76.4	138.6	5050
12S/05E-33A01M	280.0	10-19-67	85.5	194.5	5050
		11-14-67	83.6	196.4	5050
		3-20-68	79.0	201.0	5050
		4-17-68	79.2	200.8	5050
		5-15-68	82.8	197.2	5050

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SAN BENITO COUNTY 3-03.02					
12S/05E-35N02M	303.0	10-19-67	142.4	160.6	5050
		11-14-67	132.2	170.8	5050
		3-20-68	105.7	197.3	5050
		4-17-68	110.6	192.4	5050
		5-15-68	116.1	186.9	5050
13S/05E-11Q01M	325.5	2-05-68	37.1	288.4	5151
SALINAS VALLEY 3-04.00					
PRESSURE AREA 180 FOOT AQUIFER 3-04.01					
14S/02E-03C01M	10.6	12-15-67	13.9	-3.3	2100
15S/02E-01Q01M	42.0	10-18-67	(1)		2100
		11-15-67	47.4	-5.4	2100
		12-13-67	33.0	9.0	2100
		1-16-68	31.7	10.3	2100
		2-14-68	27.8	14.2	2100
		3-20-68	30.9	11.1	2100
		4-15-68	(1)		2100
		5-20-68	(1)		2100
		6-17-68	(1)		2100
		7-15-68	52.7	-10.7	2100
		8-18-68	53.9	-11.9	2100
		9-16-68	(1)		2100
15S/03E-16M01M	58.0	12-12-67	36.1	21.9	2100
15S/04E-33A01M	125.0	12-15-67	81.1	43.9	2100
16S/04E-11D01M	110.0	12-15-67	47.8	62.2	2100
PRESSURE AREA 400 FOOT AQUIFER 3-04.01					
13S/02E-31Q01M	11.0	12-12-67	12.0	-1.0	2100
14S/03E-18J01M	69.0	10-18-67	(1)		2100
		11-14-67	93.3	-24.3	2100
		12-21-67	69.6	-0.6	2100
		1-16-68	67.0	2.0	2100
		2-14-68	75.7	-6.7	2100
		3-20-68	72.0	-3.0	2100
		4-15-68	77.0	-8.0	2100
		5-20-68	89.3	-20.3	2100
		6-17-68	98.0	-29.0	2100
		7-15-68	(1)		2100
		8-18-68	102.0	-33.0	2100
		9-16-68	99.0	-30.0	2100
EAST SIDE AREA 3-04.02					
16S/05E-17R01M	181.0	12-20-67	87.3	93.7	2100
ARROYO SECO CONE 3-04.04					
18S/06E-15M01M	277.0	10-19-67	90.6	186.4	2100
		11-17-67	91.0	186.0	2100
		12-20-67	91.7	185.3	2100
		1-19-68	(1)		2100
		2-16-68	92.0	185.0	2100
		3-19-68	90.9	186.1	2100
		4-17-68	(1)		2100
		5-20-68	95.1	181.9	2100
		6-18-68	(1)		2100
		7-17-68	(1)		2100
		8-20-68	(1)		2100
		9-18-68	96.0	181.0	2100
19S/06E-11C01M	373.0	10-19-67	179.1	193.9	2100
		11-17-67	(1)		2100
		12-20-67	171.3	201.7	2100
		1-19-68	(1)		2100
		2-16-68	(9)		2100
		3-19-68	(3)		2100
		4-18-68	(1)		2100
		5-21-68	191.0	182.0	2100
		6-19-68	(1)		2100
		7-17-68	(1)		2100
		8-20-68	(1)		2100
		9-18-68	206.0	167.0	2100
UPPER VALLEY AREA 3-04.05					
19S/07E-10P01M	315.0	10-19-67	98.4	216.6	2100
		11-17-67	83.0	232.0	2100
		12-20-67	79.1	235.9	2100
		1-19-68	80.0	235.0	2100
		2-16-68	87.2	227.8	2100
		3-18-68	(1)		2100
		5-21-68	90.5	224.5	2100
		6-19-68	90.0	225.0	2100
		7-17-68	(1)		2100
		8-20-68	(1)		2100
		9-18-68	(1)		2100
20S/08E-05R01M	337.0	10-20-67	67.1	269.9	2100
		11-16-67	(1)		2100
		12-20-67	61.0	276.0	2100
		1-19-68	60.8	276.2	2100
		2-16-68	61.0	276.0	2100
		3-18-68	(1)		2100
		4-18-68	(1)		2100
		5-20-68	72.5	264.5	2100

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
UPPER VALLEY AREA 3-04.05					
20S/08E-05R01M	337.0	6-19-68	77.0	260.0	2100
(Continued)		7-16-68	(1)		2100
		8-20-68	75.5	261.5	2100
		9-18-68	(1)		2100
21S/09E-06K01M	344.0	12-19-67	(4)		2100
21S/10E-32N01M	400.0	12-26-67	23.0	377.0	2100
22S/10E-16K01M	472.0	12-26-67	71.3	400.7	2100
PASO ROBLES BASIN 3-04.06					
24S/10E-11C01M	620.0	12-01-67	(0)		5117
24S/11E-25N01M	603.3	3-29-68	(1)		5117
		9-27-68	(1)		5117
24S/11E-33R01M	565.0	3-29-68	(1)		5117
		9-27-68	(1)		5117
24S/11E-35J01M	616.8	10-18-67	61.7	555.1	5117
		4-05-68	61.5	555.3	5117
24S/12E-17N01M	770.0	10-01-67	(0)		5117
24S/15E-33C01M	1225.0	10-19-67	38.3	1186.7	5117
		4-11-68	(6)		5117
25S/11E-35G01M	895.0	10-18-67	63.3	831.7	5117
		4-08-68	62.5	832.5	5117
25S/12E-17J01M	640.0	10-18-67	70.5	569.5	5117
		5-08-68	68.5	571.5	5117
25S/12E-17R01M	640.0	10-18-67	63.5	576.5	5117
		4-08-68	51.4	588.6	5117
25S/12E-26K01M	749.0	10-31-67	111.4	637.6	5117
		4-08-68	122.3	626.7	5117
25S/13E-11E01M	1185.0	10-19-67	59.1	1125.9	5117
		4-09-68	60.4	1124.6	5117
25S/16E-17L01M	1165.0	10-19-67	29.4	1135.6	5117
		4-11-68	30.3	1134.7	5117
25S/16E-30M01M	1218.0	10-19-67	69.2	1148.8	5117
		4-11-68	67.8	1150.2	5117
26S/12E-04N01M	675.0	10-18-67	46.9	628.1	5117
		4-08-68	44.3	630.7	5117
26S/12E-26E01M	840.0	10-16-67	203.4	636.6	5117
		9-26-68	205.0	635.0	5117
26S/12E-35M01M	818.0	10-16-67	(3)		5117
26S/13E-10D01M	800.0	10-19-67	27.8	772.2	5117
		4-09-68	14.1	785.9	5117
		9-20-68	32.3	767.7	5117
26S/13E-34B01M	1005.0	10-27-67	159.3	845.7	5117
		4-10-68	157.2	847.8	5117
		9-24-68	163.0	842.0	5117
26S/14E-16L01M	1018.0	4-11-68	(9)		5117
26S/14E-35D01M	1135.0	10-19-67	120.3	1014.7	5117
26S/15E-02B01M	1115.0	10-20-67	30.8	1084.2	5117
		4-11-68	30.6	1084.4	5117
26S/15E-28Q02M	1112.0	10-20-67	61.4	1050.6	5117
26S/15E-29N01M	1133.0	10-20-67	148.0	985.0	5117
27S/12E-21N01M	748.0	10-16-67	13.7	734.3	5117
27S/13E-24N01M	1030.0	10-19-67	19.0	1011.0	5117
		4-10-68	19.1	1010.9	5117
27S/13E-32B01M	1105.0	10-19-67	56.7	1048.3	5117
27S/15E-10R02M	1130.0	10-28-67	62.8	1067.2	5117
27S/15E-13A01M	1155.0	10-28-67	15.8	1139.2	5117
27S/16E-21E02M	1255.0	10-28-67	61.7	1193.3	5117
28S/12E-10C01M	825.0	10-11-67	(8)		5117
28S/12E-10R02M	805.0	10-12-67	23.5	781.5	5117
28S/12E-13N01M	850.0	10-01-67	(0)		5117
28S/12E-14C01M	824.6	10-11-67	1.2	823.4	5117
		4-03-68	(7)		5117
28S/13E-04K01M	1199.5	10-19-67	55.2	1144.3	5117
		4-10-68	59.9	1139.6	5117
		9-30-68	65.5	1134.0	5117
28S/13E-04K02M	1195.0	10-19-67	80.3	1114.7	5117
		4-10-68	81.7	1113.3	5117
		9-30-68	84.3	1110.7	5117
28S/14E-07E01M	1150.0	10-01-67	(0)		5117

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PASO ROBLES BASIN 3-04.06					
28S/16E-23M01M	1440.0	10-28-67	DRY		5117
		4-17-68	48.7	1391.3	5117
29S/13E-05F03M	916.1	10-11-67	16.9	899.2	5117
		4-03-68	15.2	900.9	5117
29S/13E-05K02M	928.0	10-11-67	10.7	917.3	5117
		4-03-68	8.6	919.4	5117
29S/13E-06A01M	920.0	10-11-67	68.8	851.2	5117
		4-03-68	41.2	878.8	5117
29S/13E-19H01M	1002.0	10-11-67	23.1	978.9	5117
		4-03-68	3.7	998.3	5117
SEASIDE AREA 3-04-08					
14S/02E-31M01M	119.9	10-26-67	129.5	-9.6	5005
		11-29-67	125.4	-5.5	5005
		1-10-68	122.5	-2.6	5005
		2-15-68	121.5	-1.6	5005
		3-13-68	120.9	-1.0	5005
		4-17-68	126.7	-6.8	5005
15S/01E-14N01M	144.6	10-26-67	(7)		5005
		11-29-67	111.6	33.0	5005
		1-10-68	117.3	27.3	5005
		2-15-68	114.1	30.5	5005
		3-13-68	114.5	30.1	5005
		4-17-68	117.4	27.2	5005
CARMEL VALLEY 3-07.00					
16S/01E-16L01M	75.0	10-23-67	(1)		2100
		11-22-67	21.0	54.0	2100
		12-29-67	19.1	55.9	2100
		1-22-68	18.9	56.1	2100
		2-20-68	18.6	56.4	2100
		3-21-68	(1)		2100
		4-19-68	17.0	58.0	2100
		5-17-68	21.1	53.9	2100
		6-20-68	21.3	53.7	2100
		7-18-68	21.5	53.5	2100
		8-21-68	20.9	54.1	2100
		9-20-68	19.6	55.4	2100

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CARMEL VALLEY 3-07.00					
16S/01E-22E01M	82.0	10-23-67	28.9	53.1	2100
		11-22-67	29.2	52.8	2100
		1-02-68	28.4	53.6	2100
		1-22-68	27.9	54.1	2100
		2-20-68	27.1	54.9	2100
		3-21-68	27.5	54.5	2100
		4-19-68	(1)		2100
		5-17-68	28.5	53.5	2100
		6-20-68	30.0	52.0	2100
		7-18-68	29.3	52.7	2100
		8-21-68	30.3	51.7	2100
		9-20-68	36.0	46.0	2100
16S/01E-23F01M	109.0	10-23-67	26.3	82.7	2100
		11-22-67	27.2	81.8	2100
		1-02-68	25.3	83.7	2100
		1-22-68	25.7	83.3	2100
		2-20-68	25.2	83.8	2100
		3-21-68	26.0	83.0	2100
		4-19-68	24.3	84.7	2100
		5-17-68	26.5	82.5	2100
		6-20-68	26.4	82.6	2100
		7-18-68	27.3	81.7	2100
		8-21-68	32.3	76.7	2100
		9-20-68	32.7	76.3	2100
16S/01E-25B01M	140.0	10-23-67	19.2	120.8	2100
		11-22-67	20.3	119.7	2100
		1-03-68	15.9	124.1	2100
		1-22-68	15.5	124.5	2100
		2-20-68	14.9	125.1	2100
		3-21-68	15.5	124.5	2100
		4-19-68	(1)		2100
		5-17-68	17.5	122.5	2100
		6-20-68	18.8	121.2	2100
		7-18-68	(1)		2100
		8-21-68	(1)		2100
		9-20-68	20.1	119.9	2100
WEST SANTA CRUZ TERRACE 3-26.00					
11S/02W-21E01M	65.0	12-11-67	62.2	2.8	5102
		5-15-68 (8)	81.5	-16.5	5102
11S/02W-22K01M	30.0	12-11-67	67.7	-37.7	5102
		5-15-68 (8)	42.4	-12.4	5102

Appendix D

SURFACE WATER QUALITY

INTRODUCTION

This appendix presents surface water quality data collected during the period from October 1, 1967, through September 30, 1968. The data were collected from 57 stream and estuarine stations in the Central Coastal Area by the U. S. Bureau of Reclamation and the Department of Water Resources. The U. S. Bureau of Reclamation data were collected for its Delta-San Luis Drainage Surveillance Program and are basically confined to the Sacramento-San Joaquin Delta and Suisun Bay, the latter being included in this report.

The Department of Water Resources Laboratory uses procedures from "Standard Methods for the Examination of Water and Waste Water", 12th Edition, 1967, for the determination of mineral, nutrient, and biological constituents. Pesticides are determined in accordance with the "Guide to the Analysis of Pesticide Residues", U. S. Department of Health, Education and Welfare, 1965.

U. S. Bureau of Reclamation laboratory services are provided by the U. S. Air Force at McClellan Air Force Base. It uses procedures in accordance with the "FWPCA Methods for Chemical Analysis of Water and Wastes", November 1968, for all parameters.

Two numbering systems are used in this bulletin for identifying water quality stations. The first is for those stations for which the flow of water can be measured readily as in streams and rivers. This system is that which has been used in prior editions of the Bulletin No. 130 series and is also described in the departmental publication "Index of Stream Gaging Stations in and Adjacent to California, 1966".

The second system is used for those stations which do not fit the first. This system is described as follows: The first two digits identify the hydrologic basin as in the first system. The third digit identifies the type of water body being identified and for this publication is a "B" for Bay system or "D" for Delta system. The next digit is the last digit of the latitude in degrees, "3" for 33°, or "9" for 29°. The next three digits are the minutes of latitude to the tenth of a minute. The last four digits are longitude in the same manner as latitude.

Example: EO B 807.3 145.6

EO	San Francisco Bay
B	Water Body -- Bay
8	38° Latitude
07.3	07.3 Minutes Latitude
1	121° Longitude
45.6	45.6 Minutes Longitude

SURFACE WATER MEASUREMENT STATIONS

Hydrographic Area E

San Francisco Bay (E0)

E0 3300	Suisun Bay at Benicia

Napa-Solano (E3)

E3 1400	Rector Reservoir near Yountville

SURFACE WATER QUALITY STATIONS

Hydrographic Area D

Santa Cruz (D0)

D0 1200.00	San Lorenzo River at Big Trees
D0 3100.00	Soquel Creek at Soquel

Pajaro-San Benito Rivers (D1)

D1 1250.00	Pajaro River at Chittenden
D1 1371.50	Uvas Creek near Morgan Hill
D1 2450.00	San Benito River near Bear Valley Fire Station

Lower Salinas River (D2)

D2 1220.00	Salinas River near Spreckles
D2 1310.10	Salinas River near Chular
D2 1850.00	Salinas River near Bradley

Upper Salinas River (D3)

D3 1450.00	Salinas River at Paso Robles
D3 3250.00	Nacimiento River near San Miguel

Monterey Coast (D4)

D4 1200.00	Carmel River at Robles Del Rio

Hydrographic Area E

San Francisco Bay (E0)

E0 B 736.2 211.6	San Francisco Bay at San Mateo Bridge
E0 B 748.4 228.2	San Francisco Bay at Fort Point
E0 B 749.2 222.4	San Francisco Bay at Treasure Island
E0 B 757.7 225.6	San Pablo Bay at Point San Pablo

Napa-Solano (E3)

E3 1100.50	Napa River at Dutton Landing
E3 1500.00	Napa River near St. Helena

Alameda Creek (E5)

E5 1150.00	Alameda Creek near Niles
E5 1400.00	Arroyo Del Valle near Livermore

Santa Clara Valley (E6)

E6 4250.00	Coyote Creek near Madrone
E6 5250.00	Los Gatos Creek at Los Gatos

Hydrographic Area F

Mendocino Coast (F8)

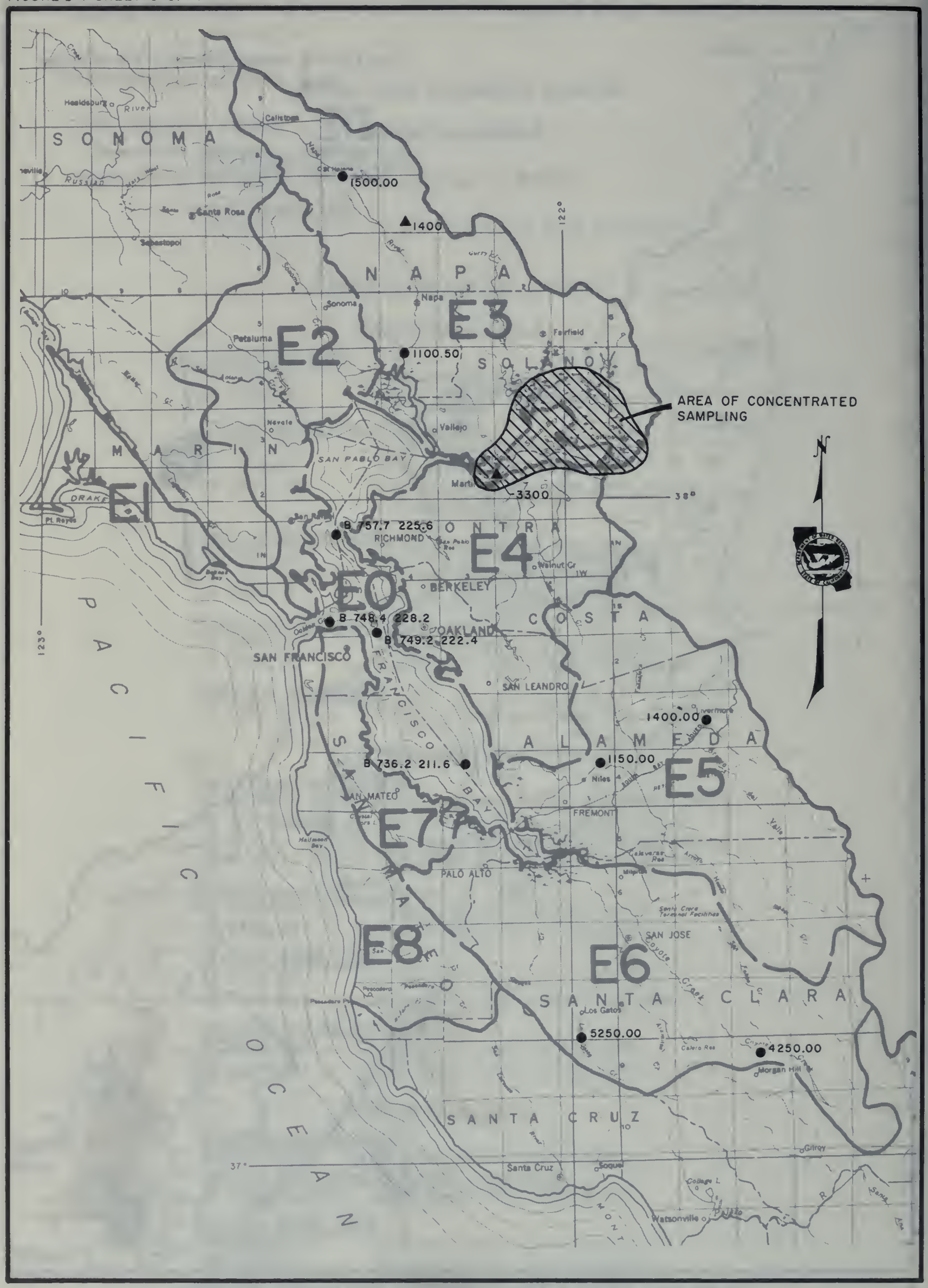
F8 2100.00	Navarro River near Navarro
F8 2720.00	Big River near Mouth
F8 3080.50	Noyo River near Fort Bragg

Russian River (F9)

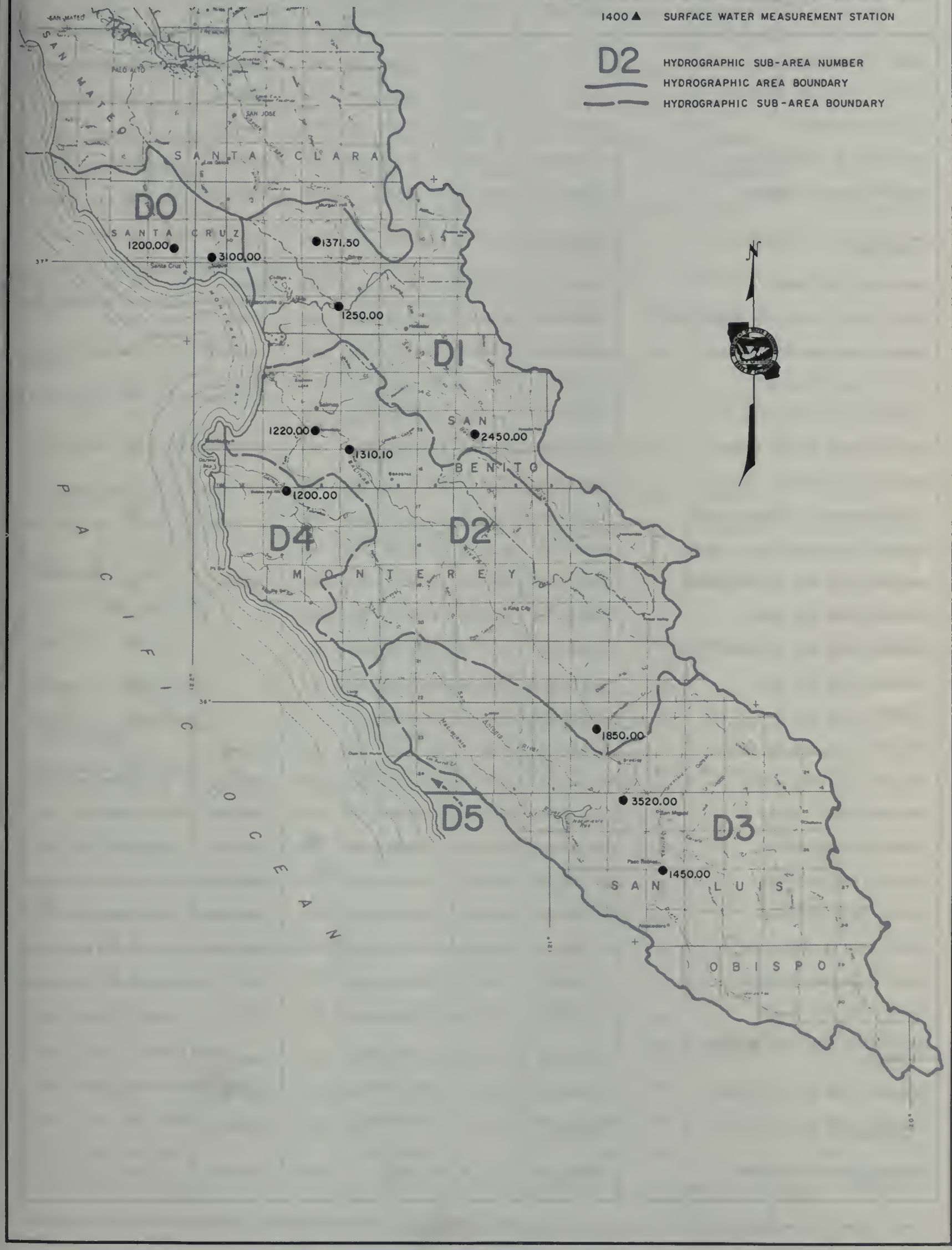
F9 1080.50	Russian River at Guerneville
F9 1500.00	Russian River near Healdsburg
F9 1765.00	Russian River near Hopland
F9 4900.00	Russian River, East Fork, at Potter Valley Powerhouse

SURFACE WATER OBSERVATION STATIONS 1967-68

FIGURE D-1 SHEET 3 OF 4



SURFACE WATER OBSERVATION STATIONS 1967-68



SURFACE WATER OBSERVATION STATIONS 1967-68

TABLE D-1

SAMPLING STATION DATA AND INDEX

Station	Station Number	Location		Beginning Of Record	Frequency Of Sampling	Analyses On Page
		Latitude ° ' "	Longitude ° ' "			
ALAMEDA CREEK NEAR NILES	E5 1150.00	37 35 14	121 57 35	Dec. 1951	Monthly	81, 84, 94
ARROYO DEL VALLE NEAR LIVERMORE	E5 1400.00	37 37 24	121 45 28	July 1958	Monthly	81, 84, 94
BIG RIVER NEAR MOUTH	F8 2720.00	39 18 53	123 42 15	Jan. 1959	Annually	82
CARMEL RIVER AT ROBLES DEL RIO	D4 1200.00	36 28 28	121 43 40	Jan. 1952	Annually	73, 84
CARQUINEZ STRAIT AT CROCKETT (CROCKETT)	E0B80352133 (E03100.90)	38 03 28	122 13 18	1946	Four-day	87
CARQUINEZ STRAIT AT MARTINEZ (MARTINEZ)	E0B80192078 (E03300.10)	38 01 55	122 07 46	1926	Four-day	87
COYOTE CREEK NEAR MADRONE	E6 4250.00	37 10 06	121 38 55	Jan. 1952	Annually	82, 84
GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH	E0B80702023	38 07 02	122 02 19	Jan. 1968	Random	78, 93
HONKER BAY NEAR WHEELER POINT	E0B80441562	38 04 38	121 56 12	Jan. 1968	Random	77, 93
LOS GATOS CREEK AT LOS GATOS	E6 5250.00	37 12 30	121 59 15	Dec. 1951	Annually	82, 84
MONTEZUMA SLOUGH ABOVE HUNTER CUT	E0B81002025	38 09 58	122 02 30	Sept. 1968		80
MONTEZUMA SLOUGH AT FROST SLOUGH	E0B81031574	38 10 19	121 57 23	Sept. 1968		80
MONTEZUMA SLOUGH AT MEINS LANDING	E0B80841545	38 08 22	121 54 30	Sept. 1968		80
MONTEZUMA SLOUGH AT SACRAMENTO RIVER	E0B80431518	38 04 16	121 51 49	Sept. 1968		77
MONTEZUMA SLOUGH BELOW GRIZZLY SLOUGH	E0B80631533	38 06 18	121 53 18	Sept. 1968		78
MONTEZUMA SLOUGH NEAR BELDONS LANDING	E0B81121582	38 11 13	121 58 10	July 1968	Random	80
MONTEZUMA SLOUGH NEAR MOLENA	E0B80761538	38 07 34	121 53 47	Sept. 1968		79
MONTEZUMA SLOUGH NEAR MONTEZUMA STATION	E0B80531529	38 05 20	121 52 57	Sept. 1968		78
MONTEZUMA SLOUGH NEAR MOUTH	E0B80842036	38 08 26	122 03 36	Sept. 1968		80
MONTEZUMA SLOUGH NEAR TREE SLOUGH	E0B81062006	38 10 36	122 00 39	Sept. 1968		80
NACIMIENTO RIVER NEAR SAN MIGUEL	D3 3520.00	35 47 00	120 47 20	July 1958	Semiannually	73, 84
NAPA RIVER AT DUTTONS LANDING	E3 1100.50	38 12 28	122 18 20	Sept. 1965	Bimonthly	81, 84, 94, 96, 97
NAPA RIVER NEAR ST. HELENA	E3 1500.00	38 29 40	122 25 50	Dec. 1951	Annually	81, 84
NAVARRO RIVER NEAR NAVARRO	F8 2100.00	39 10 15	123 39 55	Jan. 1959	Annually	82
NOYO RIVER NEAR FORT BRAGG	F8 3080.50	39 26 05	123 44 59	Jan. 1951	Annually	82
PAJARO RIVER AT CHITTENDEN	D1 1250.00	36 54 01	121 35 48	Dec. 1951	Bimonthly	72, 85, 91
RUSSIAN RIVER AT GUERNEVILLE	F9 1080.50	38 30 00	122 56 05	April 1951	Bimonthly	82, 85, 94
RUSSIAN RIVER NEAR HEALDSBURG	F9 1500.00	38 44 59	123 05 28	April 1951	Annually	82, 85
RUSSIAN RIVER NEAR HOPLAND	F9 1765.00	39 01 35	123 07 45	April 1951	Annually	82, 85
RUSSIAN RIVER, EAST FORK, AT POTTER VALLEY POWERHOUSE	F9 4900.00	39 21 42	123 07 38	May 1951	Annually	82, 85
SACRAMENTO RIVER AT CHIPPS ISLAND	E0B80281550	38 02 47	121 55 02	Jan. 1968	Random	75, 92
SACRAMENTO RIVER AT COLLINSVILLE (COLLINSVILLE)	B9D80441513 (E31110.00)	38 04 25	121 51 18	July 1958	Semiannually	87
SACRAMENTO RIVER AT PITTSBURG (PITTSBURG)	B9D80231530 (B91070.10)	38 02 18	121 52 58	1945	Four-day	87

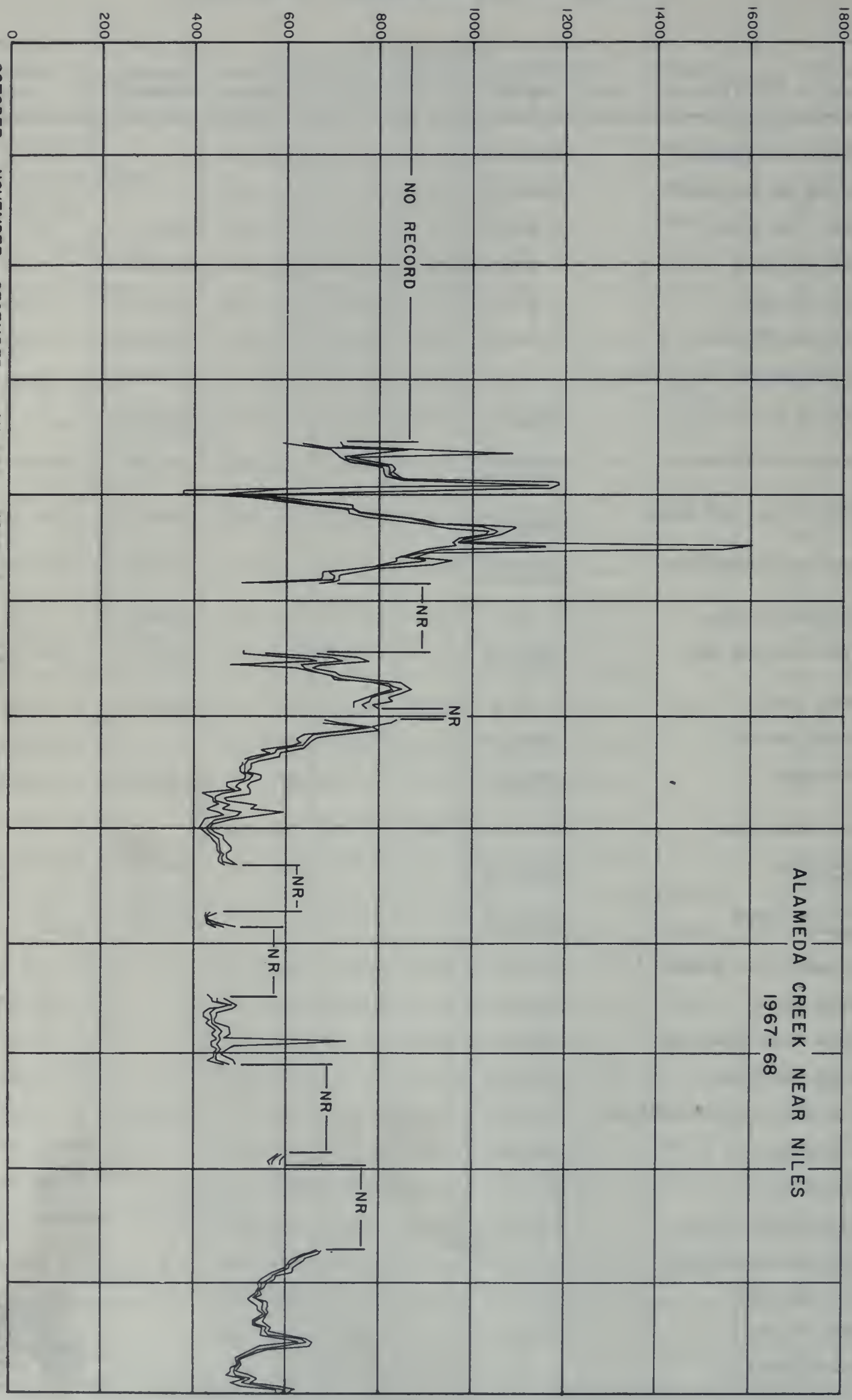
Note: Items in parentheses are names or numbers used in previous publications.

TABLE D-1

SAMPLING STATION DATA AND INDEX

Station	Station Number	Location		Beginning Of Record	Frequency Of Sampling	Analyses On Page
		Latitude ° ′ ″	Longitude ° ′ ″			
SACRAMENTO RIVER BELOW PITTSBURG	E0B80281536	38 02 47	121 53 35	Sept. 1968		75
SACRAMENTO RIVER NEAR SIMMONS POINT	E0B80301559	38 03 01	121 55 57	Sept. 1968		76
SALINAS RIVER AT PASO ROBLES	D3 1450.00	35 37 40	120 41 05	April 1951	Annually	73
SALINAS RIVER NEAR BRADLEY	D2 1850.00	35 55 40	120 52 00	July 1958	Semiannually	73, 85
SALINAS RIVER NEAR CHULAR	D2 1310.10	36 33 15	121 32 55	Sept. 1968	Annually	73, 85
SALINAS RIVER NEAR SPRECKLES	D2 1220.00	36 37 50	121 40 40	April 1951	Bimonthly	72, 85, 91
SAN BENITO RIVER NEAR BEAR VALLEY FIRE STATION	D1 2450.00	36 36 34	121 12 07	July 1958	Semiannually	72, 85
SAN FRANCISCO BAY AT COYOTE POINT	E0B73552194 (E0EH75.27)	37 35 27	122 19 26	Dec. 1966	Oct., Feb., June	96
SAN FRANCISCO BAY AT FORT POINT	E0B74842282 (E0GJ47.72)	37 48 25	122 28 10	Oct. 1964	Bimonthly	74, 85, 91, 96, 97
SAN FRANCISCO BAY AT SAN MATEO BRIDGE	E0B73622116 (E0EG85.33)	37 36 14	122 11 34	Oct. 1964	Bimonthly	73, 85, 91, 96, 97
SAN FRANCISCO BAY AT TREASURE ISLAND	E0B74922224 (E0GH59.55)	37 49 15	122 22 26	July 1965	Bimonthly	74, 85, 92, 96, 97
SAN LORENZO RIVER AT BIG TREES	D0 1200.00	37 01 40	122 03 30	Dec. 1951	Bimonthly	72, 86
SAN PABLO BAY AT POINT SAN PABLO	E0B75772256 (E0HJ74.01)	37 57 40	122 25 35	Jan. 1964	Bimonthly	74, 86, 92, 96, 97
SOQUEL CREEK AT SOQUEL	D0 3100.00	36 59 29	121 57 17	Dec. 1951	Annually	72, 86, 91
SUISUN BAY ABOVE AVON PIER	E0B80322048	38 03 13	122 04 48	Sept. 1968		76, 92
SUISUN BAY AT BENICIA	E0B80242082 (E0JG30.19)	38 02 24	122 08 14	Jan. 1966	Bimonthly	75, 86, 96, 97
SUISUN BAY AT FREEMAN ISLAND	E0B80461595	38 04 38	121 59 32	Sept. 1968		78
SUISUN BAY AT NICHOLS (MIDDLE POINT)	E0B80301590 (E03200.00)	38 03 01	121 58 58	Jan. 1964	Four-day	87
SUISUN BAY AT PORT CHICAGO (PORT CHICAGO)	E0B80342023 (E03200.90)	38 03 24	122 02 20	1946	Four-day	87
SUISUN BAY CUTOFF AT POINT BUCKLER	E0B80572012	38 05 41	122 01 14	Sept. 1968		78
SUISUN BAY NEAR BENICIA	E0B80262071	38 02 38	122 07 09	Jan. 1968		76, 92
SUISUN BAY NEAR MIDDLE GROUND ISLAND	E0B80351577	38 03 30	121 57 45	Sept. 1968		76
SUISUN BAY NEAR PRESTON POINT	E0B80402030	38 03 58	122 03 00	Sept. 1968		77, 93
SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ	E0B80232071	38 02 20	122 07 06	Feb. 1968	Random	74, 92
SUISUN BAY OFF MIDDLE POINT	E0B80361593	38 03 36	121 59 20	Jan. 1968		76, 93
SUISUN SLOUGH AT MOUTH	E0B80722037	38 07 09	122 03 43	Sept. 1968		79
SUISUN SLOUGH AT VOLANTI SLOUGH	E0B81082028	38 10 48	122 02 48	Sept. 1968		80
SUISUN SLOUGH BELOW GOODYEAR SLOUGH	E0B80802048	38 07 57	122 04 50	Sept. 1968		79
SUISUN SLOUGH NEAR CYGNUS	E0B80922042	38 09 10	122 04 12	Sept. 1968		80
SUISUN SLOUGH NEAR TEAL	E0B81022041	38 10 10	122 04 04	Sept. 1968		80
UVAS CREEK NEAR MORGAN HILL	D1 1371.50	37 03 37	121 40 20	July 1952	Semiannually	72, 86, 91

FIGURE D-2



MAXIMUM, MINIMUM, AND AVERAGE DAILY SPECIFIC CONDUCTANCE
OCTOBER 1967 THROUGH SEPTEMBER 1968

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

Abbreviations

LAB - The laboratory which analyzed the sample:

5006 McClellan Air Force Base Laboratory (used by USBR).
5050 Department of Water Resources Laboratory at Bryte.

SAMPLER - 5001 U. S. Bureau of Reclamation.
5050 Department of Water Resources

G.H. - Instaneous gage height in feet above an established datum.

Q or DEPTH - Instaneous discharge measured in cubic feet per second (cfs) or depth at which sample was collected.

DO - Dissolved oxygen content in milligrams per liter.

SAT - Percent saturation.

TEMP - Water temperature in degrees Fahrenheit and Celsius.

PH - Measure of acidity or alkalinity of water.

EC - Specific electrical conductance in micromhos at 25° Celsius.

TDS - Gravimetric determination of total dissolved solids at 180° Celsius.

SUM - Summation of analyzed constituents in prescribed manner.

TH - Total hardness represents the sum of concentrations of calcium and magnesium ions expressed as milligrams per liter of calcium carbonate.

NCH - Noncarbonate hardness represents any excess of total hardness over the total alkalinity.

PERCENT REACTANCE VALUE is determined by dividing the sum of the cations or anions in milliequivalents per liter into each constituent in milliequivalents per liter arriving at a percentage. For a partial analysis, an approximate value is determined by multiplying the electrical conductance by 0.01 and using that as the cation or anion sum.

Chemical Symbols

B	- Boron	K	- Potassium
CA	- Calcium	MG	- Magnesium
CL	- Chloride	NA	- Sodium
CO_3	- Carbonate	NO_3	- Nitrate
F	- Fluoride	SIO_2	- Silica
HCO_3	- Bicarbonate	SO_4	- Sulfate

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. Q	OO SAT	TEMP		PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	MILLIGRAMS PER LITER TDS SUM	TH NCH
			00 1200.00					SAN LORENZO RIVER AT BIG TREES													
11/21/67	5050	.97	10.0	51	F	8.2	381	--	--	22	--	0.0	136	--	22	--	--	0.1	--	--	120
0735	5050	25	90	11	C	7.6				.96			2.23		.62						9
										25			58		16						
01/23/68	5050	1.21	11.2	45	F	8.2	399	--	--	22	--	0.0	133	--	22	--	--	0.0	--	--	142
0745	5050	36	93	7	C	7.6				.96			2.18		.62						33
										24			54		15						
03/13/68	5050	3.16	10.6	53	F	7.8	212	--	--	9.4	--	0.0	63	--	11	--	--	0.2	--	--	73
0745	5050	390	98	12	C	7.4				.41			1.03		.31						22
										19			48		14						
05/22/68	5050	1.36	10.4	59	F	8.1	384	40	8.8	22	1.8	0.0	132	44	20	0.9	--	0.0	23	223	136
0550	5050	49	103	15	C	7.4		2.00	.72	.96	.05		2.16	.92	.56	.01				225	28
								54	19	26	1		59	25	15						
07/02/68	5050	1.22	9.8	62	F	8.3	391	--	--	23	--	0.0	137	--	21	--	--	0.0	--	--	138
0635	5050	20	101	17	C	7.6				1.00			2.25		.59						26
										25			57		15						
09/05/68	5050	.87	8.2	67	F	8.1	282	--	--	9.8	--	0.0	154	--	5.7	--	--	0.3	--	--	129
0630	5050	14	90	19	C	7.3				.43			2.53		.16						3
										15			89		5						
			00 3100.00					SOQUEL CREEK AT SOQUEL													
05/21/68	5050	2.88	9.7	71	F	8.5	760	75	23	48	4.1	8.0	216	121	55	0.0	--	0.1	27	445	281
1400	5050	8.2	111	22	C	8.0		3.74	1.89	2.09	.10	.27	3.54	2.52	1.55					467	91
								48	24	27	1	3	45	32	20						
			01 1250.00					PAJARO RIVER AT CHITTENDEN													
11/15/67	5050	2.01	8.0	57	F	8.5	1240	--	--	70	--	21	367	--	74	--	--	0.3	--	--	509
0800	5050	25	79	14	C	8.0				3.05		.70	6.02		2.09						173
										24		5	48		16						
01/17/68	5050	1.97	8.9	54	F	8.5	1320	--	--	95	--	12	380	--	90	--	--	0.5	--	--	532
0845	5050	28	83	12	C	8.0				4.13		.40	6.23		2.54						201
										31		3	47		19						
03/20/68	5050	2.58	9.8	55	F	8.4	967	--	--	69	--	5.0	262	--	65	--	--	0.3	--	--	354
0830	5050	74	93	13	C	7.6				3.00		.17	4.30		1.83						131
										31		1	44		18						
05/09/68	5050	1.49	8.3	64	F	8.6	1410	89	78	110	3.1	29	400	232	103	28	--	0.5	--	894	542
0840	5050	17	88	18	C	8.0		4.44	6.41	4.79	.08	.97	6.56	4.83	2.90	.45				869	166
								28	41	30	1	6	42	31	18	3					
07/09/68	5050	.94	8.0	67	F	8.7	1360	--	--	105	--	24	423	--	83	--	--	0.4	--	--	505
0815	5050	4.2	88	19	C	7.7				4.57		.80	6.94		2.34						118
										33		5	51		17						
09/04/68	5050	.98	8.3	73	F	8.3	1810	73	80	234	7.2	0.0	501	360	180	5.1	--	0.1	--	1100	510
1315	5050	4.0	97	23	C	8.2		3.64	6.58	10.18	.18		8.22	7.49	5.08	.08				1185	99
								18	32	49	1		39	36	24						
			01 1371.50					UVAS CREEK NEAR MORGAN HILL													
05/08/68	5050	2.84	9.9	54	F	8.1	338	31	17	10	1.1	0.0	158	25	8.2	1.4	--	0.0	15	224	146
1400	5050	4.5	93	12	C	7.6		1.55	1.40	.44	.03		2.59	.52	.23	.02				186	17
								45	41	13	1		77	15	7	1					
09/04/68	5050	2.56	10.8	74	F	8.3	389	35	20	10	2.3	0.0	186	29	8.3	0.2	--	2.0	--	158	168
1230	5050	0.3	128	23	C	8.0		1.75	1.64	.44	.06		3.05	.60	.23					198	16
								45	42	11	2		79	15	6						
			01 2450.00					SAN BENITO RIVER NEAR BEAR VALLEY FIRE STATION													
05/07/68	5050	4.84	8.9	72	F	8.8	1170	20	122	69	3.4	42	543	118	43	0.4	--	0.8	4.7	690	554
1545	5050	25	103	22	C	8.9		1.00	10.03	3.00	.09	1.40	8.91	2.45	1.21	.01				689	39
								7	71	21	1	10	64	18	9						
09/04/68	5050	3.76	16.3	83	F	8.3	1730	20	93	238	5.5	0.0	540	320	138	0.3	--	0.1	--	1030	434
1430	5050	0.1	212	28	C	8.4		1.00	7.64	10.35	.14		8.86	6.66	3.89					1080	0
								5	40	54	1		46	34	20						
			02 1220.00					SALINAS RIVER NEAR SPRECKLES													
11/15/67	5050	6.27	8.2	58	F	8.2	521	--	--	30	--	0.0	173	--	26	--	--	0.0	--	--	189
0645	5050	120	81	14	C	7.6				1.31			2.84		.73						47
										25			54		14						
01/17/68	5050		7.1	50	F	8.3	1490	--	--	114	--	0.0	600	--	134	--	--	0.3	--	--	464
0700	5050	3.0	63	10	C	7.8				4.96			9.84		3.78						0
										33			66		25						
03/20/68	5050	5.57	10.1	55	F	8.1	517	--	--	26	--	0.0	171	--	22	--	--	0.0	--	--	191
0645	5050	41	96	13	C	8.0				1.13			2.80		.62						51
										21			54		11						
05/09/68	5050	4.70	2.9	64	F	8.1	1300	60	39	133	23	0.0	345	86	144	74	--	0.3	35	760	311
0700	5050	1.3	31	18	C	7.4		2.99	3.21	5.79	.59		5.66	1.79	4.06	1.19				763	28
								24	26	46	5		45	14	32	9					

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. ft	DO SAT	TEMP		PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
								D2 1220.00 SALINAS RIVER NEAR SPRECKLES CONTINUED														
07/03/68	5050	5.03	4.8	73	F	7.7	1230	--	--	138	--	0.0	241	--	116	--	--	0.6	--	--	273
0650	5050	6.2	50	23	C	7.6				6.00			3.95		3.27						76
										48			32		26						
09/04/68	5050	4.69	8.6	74	F	8.1	1230	36	48	143	2.3	0.0	224	179	119	83	--	0.1	--	742	287
1110	5050	0.4	102	23	C	7.6		1.80	3.95	6.22	.06		3.67	3.72	3.36	1.34				720	104
								15	33	52			30	31	28	11					
								D2 1310.10 SALINAS RIVER NEAR CHULAR													
09/04/68	5050		10.4	69	F	8.1	409	37	17	15	2.6	0.0	164	48	13	0.7	--	0.1	--	195	162
1030	5050		116	21	C	8.4		1.85	1.40	.65	.07		2.69	1.00	.37	.01				214	28
								47	35	16	2		66	25	9						
								D2 1850.30 SALINAS RIVER NEAR BRADLEY													
05/07/68	5050	4.82	9.8	63	F	8.4	352	34	16	13	1.7	2.0	141	42	8.6	0.2	--	0.1	13	182	150
1300	5050	429	102	17	C	8.2		1.70	1.32	.57	.04	.07	2.31	.87	.24					200	31
								47	36	16	1	2	66	25	7						
09/04/68	5050		9.5	63	F	8.0	367	34	16	11	2.3	0.0	157	38	8.7	0.6	--	0.6	--	177	149
0820	5050	500	99	17	C	8.0		1.70	1.32	.48	.06		2.57	.79	.25	.01				188	21
								48	37	13	2		71	22	7						
								D3 1450.00 SALINAS RIVER AT PASO ROBLES													
05/07/68	5050					--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1100	5050	0.0																			
								D3 3520.00 NACIMIENTO RIVER NEAR SAN MIGUEL													
05/07/68	5050	4.82	11.4	58	F	8.3	308	30	15	9.8	1.4	0.0	135	36	7.4	0.0	--	0.0	11	168	137
1210	5050	348	112	14	C	8.0		1.50	1.23	.43	.04		2.21	.75	.21					177	27
								47	38	13	1		70	24	7						
09/04/68	5050	5.20	8.7	60	F	8.0	347	32	16	8.3	2.3	0.0	150	34	7.8	0.5	--	0.8	--	154	146
0725	5050	476	88	16	C	7.4		1.60	1.32	.36	.06		2.46	.71	.22	.01				175	23
								48	40	11	2		72	21	6						
								D4 1200.00 CARMEL RIVER AT ROBLES DEL RIO													
05/08/68	5050	2.03	10.6	69	F	8.4	732	69	24	38	3.5	2.0	142	167	47	0.0	--	0.1	18	432	270
1100	5050	0.8	119	21	C	7.8		3.44	1.97	1.65	.09	.07	2.33	3.47	1.33					438	150
								48	28	23	1	1	32	48	18						
								E0 B 736.2 211.6 SAN FRANCISCO BAY AT SAN MATEO BRIDGE													
10/05/67	5050		6.5	66	F	--	43700	--	--	--	--	--	--	--	15500	--	--	--	--	28900	--
0740	5050		70	19	C	8.1									437.10						
															100						
12/04/67	5050		8.3	54	F	--	43800	--	--	--	--	--	--	--	14500	--	--	--	--	28500	--
0745	5050		78	12	C	8.2									408.90						
															93						
02/16/68	5050		8.4	54	F	--	33400	--	--	--	--	--	--	--	13100	--	--	--	--	25800	--
0745	5050		79	12	C	8.0									369.42						
															110						
04/16/68	5050		6.2	58	F	--	34400	--	--	--	--	--	--	--	12300	--	--	--	--	24200	--
0850	5050		61	14	C	8.4									346.86						
															100						
06/12/68	5050		6.5	63	F	--	45900	--	--	--	--	--	--	--	16200	--	--	--	--	32300	--
0740	5050		68	17	C	8.2									456.84						
															99						
08/09/68	5050		7.6	65	F	--	50300	--	--	--	--	--	--	--	18400	--	--	--	--	34200	--
0710	5050		81	18	C	8.5									518.88						
															103						

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MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. DEPTH	DO SAT	TEMP		PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
					EO B 748.4 228.2 SAN FRANCISCO BAY AT FORT POINT																
10/05/67	5050		6.0	62	F	--	47100	--	--	--	--	--	--	--	17100	--	--	--	--	32400	--
0740	5050		62	17	C	8.4									482.22						
															102						
12/04/67	5050		8.1	56	F	--	47500	--	--	--	--	--	--	--	17000	--	--	--	--	31800	--
0855	5050		73	13	C	8.3									479.40						
															100						
02/16/68	5050		7.9	52	F	--	42300	--	--	--	--	--	--	--	15200	--	--	--	--	29800	--
0845	5050		69	11	C	8.2									428.64						
															101						
04/16/68	5050		8.1	55	F	--	44900	--	--	--	--	--	--	--	16300	--	--	--	--	31200	--
0940	5050		77	13	C	8.2									459.66						
															102						
06/12/68	5050		7.2	65	F	--	48200	--	--	--	--	--	--	--	17800	--	--	--	--	34000	--
0820	5050		73	16	C	8.2									501.96						
															104						
08/09/68	5050		6.7	62	F	--	50700	--	--	--	--	--	--	--	18300	--	--	--	--	35000	--
0750	5050		69	17	C	8.3									516.06						
															101						
					EO B 749.2 222.4 SAN FRANCISCO BAY AT TREASURE ISLAND																	
10/05/67	5050		6.9	62	F	--	46100	--	--	--	--	--	--	--	16600	--	--	--	--	32300	--
0615	5050		71	17	C	8.4									468.12						
															101						
12/05/67	5050		7.9	54	F	--	44900	--	--	--	--	--	--	--	15900	--	--	--	--	29100	--
0905	5050		74	12	C	8.0									448.38						
															99						
02/15/68	5050		8.0	51	F	--	39400	--	--	--	--	--	--	--	14600	--	--	--	--	27300	--
0710	5050		72	11	C	7.4									411.72						
															104						
04/15/68	5050		6.1	58	F	--	41700	--	--	--	--	--	--	--	14600	--	--	--	--	28300	--
0810	5050		60	14	C	8.2									411.72						
															98						
06/11/68	5050		9.2	60	F	--	47300	--	--	--	--	--	--	--	16600	--	--	--	--	30300	--
0704	5050		83	16	C	7.5									468.12						
															98						
08/08/68	5050		6.4	63	F	--	49900	--	--	--	--	--	--	--	17800	--	--	--	--	35200	--
0650	5050		67	17	C	8.1									501.96						
															100						
					EO B 757.7 225.6 SAN PABLO BAY AT POINT SAN PABLO																	
10/04/67	5050		5.9	64	F	--	31700	--	--	--	--	--	--	--	10900	--	--	--	--	22300	--
0805	5050		62	18	C	8.3									307.38						
															96						
12/05/67	5050		7.7	56	F	--	36700	--	--	--	--	--	--	--	12500	--	--	--	--	23300	--
1045	5050		74	13	C	8.2									352.50						
															96						
02/16/68	5050		8.1	54	F	--	30000	--	--	--	--	--	--	--	10900	--	--	--	--	21100	--
0945	5050		76	12	C	8.1									307.38						
															102						
04/16/68	5050		5.5	59	F	--	33000	--	--	--	--	--	--	--	12000	--	--	--	--	23400	--
1040	5050		56	15	C	8.2									338.40						
															102						
06/12/68	5050		4.4	65	F	--	41200	--	--	--	--	--	--	--	14100	--	--	--	--	28100	--
0920	5050		47	18	C	7.6									397.62						
															96						
08/09/68	5050		7.4	64	F	--	45500	--	--	--	--	--	--	--	16300	--	--	--	--	30300	--
0855	5050		78	18	C	8.3									459.66						
															101						
					EO B 802.3 207.1 SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ																	
02/27/68			8.6	57	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1245	5001	3	83	14	C	7.2	4000															
02/27/68				57	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1246	5001	16		14	C		4600															
03/29/68	5006		1.0	61	F	7.2	1000	14	29	150	8.2	--	90	45	246	--	--	--	--	574	155
0945	5001	3	10	16	C	7.4	1500	.70	2.41	6.53	.21		1.48	.94	6.94					537	81
								7	24	66	2		16	10	74						
04/23/68			5.6	59.9F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1205	5001	3	56	15.5C		7.7	22000															
05/20/68	5006		7.8	63	F	--	27500	--	--	--	--	--	--	--	9270	--	--	--	--	18030	--
1230	5001	3	81	17	C	7.8	17000								261.41						
															95						

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MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. DEPTH	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	MILLIGRAMS PER LITER TDS SUM	TH NCH
				EO B 802.3 207.1			SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ													CONTINUED
08/16/68			7.4	67.1F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1510	5001	3	81	19.5C	7.8	27000														
09/05/68			8.7	68.0F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1325	5001	3	96	20.0C	7.9	17000														
09/27/68	5006		8.2	67.1F	--	18252	5.0	718	4900	180	--	115	1000	8500	--	--	0.5	--	15938	2359
0900	5001	3	90	19.5C	8.2	18200	.25	59.06	213.15	4.61		1.49	20.80	239.70					15360	2367
								21	77	2		1	9	91						
				EO B 802.4 208.2			SUISUN BAY AT BENICA													
10/05/67	5050	9.65	7.6	66 F	--	6010	--	--	--	--	--	--	--	1760	--	--	--	--	3460	--
0955	5050		82	19 C	8.0									49.63						
														82						
12/05/67	5050	11.72	9.0	54 F	--	13800	--	--	--	--	--	--	--	4340	--	--	--	--	8000	--
1200	5050		84	12 C	7.6									123.52						
														89						
02/15/68	5050	10.50	9.6	50 F	--	4330	--	--	--	--	--	--	--	1180	--	--	--	--	2350	--
1000	5050		85	10 C	7.2									33.28						
														76						
04/15/68	5050	8.97	8.5	60 F	--	9220	--	--	--	--	--	--	--	2740	--	--	--	--	5420	--
1100	5050		86	16 C	7.9									77.27						
														83						
06/11/68	5050		8.0	61 F	--	18200	--	--	--	--	--	--	--	5920	--	--	--	--	10200	--
0955	5050		82	16 C	8.0									166.94						
														91						
08/08/68	5050	8.41	7.4	64 F	--	23800	--	--	--	--	--	--	--	7980	--	--	--	--	15800	--
0930	5050		78	18 C	8.4									225.04						
														94						
				EO B 802.8 153.6			SACRAMENTO RIVER BELOW PITTSBURG														
09/24/68	5050				--	3440	--	--	--	--	--	--	--	1020	--	--	--	--	1780	--
	5050													28.76						
														83						
				EO B 802.8 155.0			SACRAMENTO RIVER AT CHIPPS ISLAND														
01/26/68	5006		10.1	48 F	--	--	--	--	--	--	--	--	--	--	--	--	--	0.5	--	--	--
1108	5001	3	87	9 C	7.3	2200														
01/26/68			10.0	48 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1109	5001	16	86	9 C	7.3	4000														
01/26/68			9.9	48 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1120	5001	40	85	9 C	7.2	4500														
02/27/68			7.6	58 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1340	5001	3	75	14 C	7.0	200														
02/27/68				57 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1341	5001	16		14 C		2000														
05/20/68	5006		9.1	64 F	--	6200	--	--	--	--	--	--	--	2160	--	--	--	12	3734	--
1240	5001	3	97	18 C	7.9	8500								60.91						
														98						
06/18/68	5006		8.6	68.9F	--	9090	70	200	1590	16	0.0	94	435	2755	--	--	--	--	5371	999
1305	5001	3	96	20.5C	8.0	8200	3.49	16.51	69.17	.42		1.54	9.05	77.69					5114	923
							4	18	77			2	10	88						
07/18/68	5006		8.8	73 F	--	10460	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1245	5001	3	104	23 C	8.3	10000														
08/02/68	5006		8.4	68 F	--	9505	73	204	1500	51	0.0	89	30	3089	--	--	--	--	5570	1020
0845	5001		93	20 C	7.7	9000	3.64	16.77	65.25	1.31		1.46	.62	87.12					4991	948
							4	19	75	2		2	1	98						
08/15/68			9.3	68.0F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1100	5001	3	103	20.0C	8.2	3500														
09/27/68	5006		9.3	67.1F	--	8436	5.0	212	1300	49	--	108	200	2400	--	--	.69	--	4499	884
1025	5001	3	102	19.5C	8.2	7300	.25	17.48	56.55	1.25		1.77	4.16	67.68					4220	796
								23	75	2		2	6	92						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. DEPTH	DO SAT	TEMP		PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							EO B 802.8 207.1 SUISUN BAY NEAR BENICIA														
01/26/68		6.50	9.2	50 F		--	--	--	--	--	--	--	--	--	--	--	--	1.8	--	--	--
1015	5001	3	81	10 C		7.4	24000														
01/26/68			9.5	50 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1016	5001	16	84	10 C		7.6	24000														
01/26/68			9.9	48 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1120	5001	32	85	9 C		7.2	4500														
02/27/68			9.0	57 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1230	5001	3	87	14 C		7.2	2000														
02/27/68				57 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1231	5001	16		14 C			4000														
							EO B 803.0 155.9 SACRAMENTO RIVER NEAR SIMMONS POINT														
09/24/68	5050			--		--	4250	--	--	--	--	--	--	--	1220	--	--	--	--	2170	--
1342	5050														34.40						
															80						
							EO B 803.2 204.8 SUISUN BAY ABOVE AVON PIER														
09/27/68	5006		8.6	68 F		--	16100	--	--	--	--	--	--	--	6850	--	--	.90	--	13200	--
0925	5001	3	95	20 C		8.1	15800								193.17						
															119						
							EO B 803.5 157.7 SUISUN BAY NEAR MIDDLE GROUND ISLAND														
09/24/68	5050			--		--	6700	--	--	--	--	--	--	--	1990	--	--	--	--	3620	--
1349	5050														56.12						
															83						
							EO B 803.6 159.3 SUISUN BAY OFF MIDDLE POINT														
01/26/68		6.50	9.6	49 F		--	--	--	--	--	--	--	--	--	--	--	--	1.0	--	--	--
1043	5001	3	84	9 C		7.4	8500														
01/26/68			10.0	49 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1044	5001	16	87	9 C		7.3	11000														
02/27/68			9.5	58 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1305	5001	3	93	14 C		7.1	210														
02/27/68				57 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1306	5001	16		14 C			210														
03/20/68			9.7	56 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1220	5001	3	93	13 C		7.5	220														
03/20/68			11.7	56 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1555	5001	3	112	13 C		7.4	210														
03/20/68			10.6	56 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1805	5001	3	102	13 C		7.6	205														
03/20/68			10.5	50 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2035	5001	3	93	10 C		7.6	220														
03/21/68			10.9	54 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0001	5001	3	102	12 C		7.7	230														
03/21/68			10.6	53.6	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0240	5001	3	99	12.0	C	7.4	220														
03/21/68	5006		12.3	54 F		7.4	226	16	8.8	19	2.0	--	72	18	22	--	--	0.5	--	134	78
0530	5001	3	115	12 C		7.5	240	.83	.72	.83	.05		1.18	.37	.62					122	19
								34	30	34	2		54	17	29						
03/21/68			11.4	55 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0840	5001	3	109	13 C		7.6	260														
03/21/68			10.8	58 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1210	5001	3	106	14 C		7.5	220														
03/21/68			9.9	57 F		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1510	5001	3	96	14 C		7.6	205														

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. DEPTH	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
						E0 8 803.6 159.3	SUISUN BAY OFF MIDDLE POINT												CONTINUED	
03/21/68			9.8	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1935	5001	3	93	13 C	7.5	210														
03/21/68			10.0	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2110	5001	3	95	13 C	7.4	210														
03/22/68			9.6	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0025	5001	3	91	13 C	7.6	240														
03/22/68			10.5	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0245	5001	3	100	13 C	7.6	230														
03/22/68			10.1	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0600	5001	3	96	13 C	7.5	220														
05/20/68	5006		9.1	63.5F	--	9000	--	--	--	--	--	--	--	3190	--	--	--	12	5962	--
1140	5001	3	96	17.5C	8.2	12500								89.96						
														99						
06/18/68	5006		9.4	66 F	--	14500	107	319	2650	12	0.0	98	820	4505	--	--	--	--	8213	1578
1240	5001	3	91	19 C	8.0	13310	5.37	26.23	115.28	.32		1.61	17.06	127.04					8462	1499
							4	18	78			1	12	87						
07/18/68	5006		9.0	73 F	--	14940	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1220	5001	3	106	23 C	8.0	13500														
08/15/68			9.1	68.0F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1040	5001	3	101	20.0C	8.1	4000														
09/27/68	5006		9.5	67.1F	--	12560	5.0	364	2100	78	--	109	420	4100	--	--	.75	--	9650	1507
1000	5001	3	104	19.5C	8.3	9900	.25	29.95	91.35	2.00		1.79	8.74	115.62					7122	1419
								24	74	2		1	7	92						
						E0 8 804.0 203.0	SUISUN BAY NEAR PRESTON POINT													
09/27/68	5006		9.6	66.2F	--	11300	--	--	--	--	--	--	--	4900	--	--	.80	--	9297	--
0945	5001	3	104	19.0C	8.3	11800								138.18						
														122						
						E0 8 804.3 151.8	MONTEZUMA SLOUGH AT SACRAMENTO RIVER													
09/24/68	5050			--	--	3650	--	--	--	--	--	--	--	1100	--	--	--	--	1900	--
	5050													31.02						
														84						
						E0 8 804.4 156.2	MONKER BAY NEAR WHEELER POINT													
01/11/68			12.4	44 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1103	5001	3	101	7 C	7.2	7000														
02/26/68			9.1	57 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1300	5001	3	88	14 C	7.2	170														
03/20/68			10.1	57 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1420	5001	3	98	14 C	7.7	240														
03/20/68			11.9	57 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1735	5001	3	116	14 C	7.8	230														
03/20/68			10.5	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2000	5001	3	99	13 C	7.7	200														
03/20/68			11.0	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2230	5001	3	105	13 C	7.6	240														
03/21/68			10.4	54 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0215	5001	3	97	12 C	7.6	240														
03/21/68			11.5	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0440	5001	3	110	13 C	7.7	220														
03/21/68	5006		11.8	56 F	7.6	234	14	6.9	20	2.0	--	75	16	21	--	--	0.5	--	135	64
0805	5001	3	113	13 C	7.5	240	.72	.57	.87	.05		1.23	.33	.62					119	3
							33	26	39	2		56	15	28						
03/21/68			10.8	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1035	5001	3	103	13 C	7.6	220														
03/21/68			9.8	58 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1405	5001	3	96	14 C	7.3	260														

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. DEPTH	OO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	MILLIGRAMS PER LITER TDS SUM	TH NCH
						EO B 804.4 156.2 HONKER BAY NEAR WHEELER POINT CONTINUED														
03/21/68			10.7	57 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1655	5001	3	104	14 C	7.6	200														
03/21/68			10.2	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2010	5001	3	97	13 C	7.5	180														
03/21/68			10.0	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2300	5001	3	95	13 C	7.4	250														
03/22/68			11.2	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0220	5001	3	107	13 C	7.4	210														
03/22/68			11.3	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0500	5001	3	108	13 C	7.5	230														
03/22/68			11.6	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0755	5001	3	110	13 C	7.5	230														
05/20/68			9.1	64 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1200	5001	3	97	18 C	8.0	8500														
06/18/68	5006		8.7	68 F	--	9950	74	215	1680	96	0.0	94	455	2960	--	--	--	--	6278	1070
1215	5001	3	96	20 C	8.1	8790	3.71	17.72	73.08	2.46		1.54	9.46	83.47					5527	994
							4	18	75	3		2	10	88						
07/18/68	5006		8.8	73 F	--	11000	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1155	5001	3	104	23 C	7.9	10000														
08/15/68			9.1	68.0F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1020	5001	3	101	20.0C	8.2	2800														
09/26/68	5006		8.8	66.2F	--	7742	5.0	249	1500	54	0.0	107	280	2700	--	--	.58	--	5527	1037
0852	5001	3	96	19.0C	8.2	6800	.25	20.47	65.25	1.38		1.75	5.82	76.14					4841	950
								23	75	2		2	7	91						
						EO B 804.6 159.5 SUISUN BAY AT FREEMAN ISLAND														
09/24/68	5050				--	--	8680	--	--	--	--	--	--	--	2830	--	--	--	--	4650	--
	5050														79.81					
															91					
						EO B 805.3 152.9 MONTEZUMA SLOUGH NR MONTEZUMA STATION														
09/24/68	5050				--	--	7130	--	--	--	--	--	--	--	2510	--	--	--	--	4040	--
	5050														70.78					
															99					
						EO B 805.7 201.2 SUISUN BAY CUTOFF AT POINT BUCKLER														
09/24/68	5050				--	--	12400	--	--	--	--	--	--	--	4440	--	--	--	--	7460	--
	5050														125.21					
															100					
						EO B 806.3 153.3 MONTEZUMA SLOUGH BELOW GRIZZLY SLOUGH														
09/24/68	5050				--	--	10100	--	--	--	--	--	--	--	3380	--	--	--	--	5780	--
	5050														95.32					
															94					
						EO B 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH														
01/11/68			10.9	41 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1030	5001	3	85	5 C		9000														
01/11/68		5.70	10.9	44 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1035	5001	3	89	7 C	7.4	11500														
02/26/68			8.9	57 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1230	5001	3	86	14 C	7.2	200														
03/20/68			10.0	58 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1315	5001	3	98	14 C	7.7	280														
03/20/68			11.4	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1645	5001	3	109	13 C	7.7	220														
03/20/68	5006		11.9	56 F	--	--	--	--	--	--	--	--	--	--	--	--	0.5	--	--	--
1900	5001	3	114	13 C	7.7	220														

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. DEPTH	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
				E0 B 807.0 202.3			GRIZZLY BAY AT DOLPHIN NEAR SUISUM SLOUGH CONTINUED													
03/20/68			10.0	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2135	5001	3	95	13 C	7.6	360														
03/21/68	5006		11.2	54 F	--	--	--	--	--	--	--	--	--	--	--	--	0.5	--	--	--
0115	5001	3	105	12 C	7.6	220														
03/21/68			10.4	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0335	5001	3	99	13 C	7.5	380														
03/21/68	5006		10.4	56 F	7.5	297	10	14	27	2.8	--	73	21	35	--	--	0.5	--	203	86
0700	5001	3	100	13 C	7.5	320	.54	1.18	1.17	.07		1.20	.44	1.01					148	26
							18	40	40	2		45	17	38						
03/21/68			10.6	63 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0935	5001	3	110	17 C	7.7	380														
03/21/68			10.6	57 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1300	5001	3	103	14 C	7.6	220														
03/21/68			9.9	61 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1555	5001	3	101	16 C	7.4	325														
03/21/68			10.0	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1925	5001	3	95	13 C	7.5	220														
03/21/68			9.9.	57 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2210	5001	3	96	14 C	7.4	315														
03/22/68			10.6	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0120	5001	3	101	13 C	7.6	360														
03/22/68			10.4	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0330	5001	3	99	13 C	7.6	260														
03/22/68			12.0	55 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0645	5001	3	114	13 C	7.4	280														
05/20/68			9.2	63 F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1055	5001	3	96	17 C	8.1	12000														
06/18/68	5006		8.7	67.1F	--	14500	108	321	2500	96	0.0	98	790	4350	--	--	--	--	9143	1588
1130	5001	3	95	19.5C	8.3	13310	5.41	26.40	108.75	2.46		1.61	16.43	122.67					8214	1509
							4	18	76	2		1	12	87						
07/18/68	5006		10.5	72 F	--	16600	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1120	5001	3	121	22 C	7.1	14000														
08/15/68			9.6	68.0F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0945	5001	3	106	20.0C	8.2	3000														
09/26/68	5006		9.4	66.2F	--	11082	5.0	331	2000	71	--	106	420	3850	--	--	.66	--	7737	1375
0821	5001	3	102	19.0C	8.3	9500	.25	27.22	87.00	1.82		1.74	8.74	108.57					6730	1288
								23	75	2		1	7	91						
				E0 B 807.2 203.7			SUISUN SLOUGH AT MOUTH													
09/24/68	5050			--	--	12600	--	--	--	--	--	--	--	4690	--	--	--	--	7410	--
	5050													132.26						
														104						
				E0 B 807.6 153.8			MONTEZUMA SLOUGH NR MOLENA													
09/24/68	5050			--	--	13000	--	--	--	--	--	--	--	4340	--	--	--	--	7610	--
	5050													122.39						
														94						
				E0 B 808.0 204.8			SUISUN SLOUGH BELOW GOODYEAR SLOUGH													
09/24/68	5050			--	--	12000	--	--	--	--	--	--	--	3990	--	--	--	--	6940	--
	5050													112.52						
														93						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. DEPTH	OO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
			E0 8 808.4 154.5				MONTEZUMA SLOUGH AT MEINS LANDING													
09/24/68	5050			--	--	13200	--	--	--	--	--	--	--	4670	--	--	--	--	7700	--
	5050													131.69						
														99						
			E0 8 808.4 203.6				MONTEZUMA SLOUGH NEAR MOUTH													
09/24/68	5050			--	--	11900	--	--	--	--	--	--	--	3870	--	--	--	--	6910	--
	5050													109.13						
														91						
			E0 8 809.2 204.2				SUISUN SLOUGH NEAR CYGNUS													
09/24/68	5050			--	--	11700	--	--	--	--	--	--	--	4120	--	--	--	--	6990	--
	5050													116.18						
														99						
09/24/68	5050			--	--	13000	--	--	--	--	--	--	--	4670	--	--	--	--	7680	--
	5050													131.69						
														101						
			E0 8 810.0 202.5				MONTEZUMA SLOUGH ABOVE HUNTER CUT													
09/24/68	5050			--	--	11900	--	--	--	--	--	--	--	3990	--	--	--	--	6890	--
	5050													112.52						
														94						
			E0 8 810.2 204.1				SUISUN SLOUGH NEAR TEAL													
09/24/68	5050			--	--	10700	--	--	--	--	--	--	--	3560	--	--	--	--	6400	--
	5050													100.39						
														93						
			E0 8 810.3 157.4				MONTEZUMA SLOUGH AT FROST SLOUGH													
09/23/68	5050			--	--	12700	--	--	--	--	--	--	--	4420	--	--	--	--	7300	--
	5050													124.64						
														98						
			E0 8 810.6 200.6				MONTEZUMA SLOUGH NEAR TREE SLOUGH													
09/24/68	5050			--	--	11700	--	--	--	--	--	--	--	3730	--	--	--	--	6640	--
	5050													105.19						
														89						
			E0 8 810.8 202.8				SUISUN SLOUGH AT VOLANTI SLOUGH													
09/24/68	5050			--	--	10300	--	--	--	--	--	--	--	3470	--	--	--	--	5980	--
	5050													97.85						
														95						
			E0 8 811.2 158.2				MONTEZUMA SLOUGH NEAR BELDONS LANDING													
07/08/68	5050			--	--	11300	--	--	--	--	--	--	--	3620	--	--	--	--	6550	--
	5050													102.08						
														90						
07/25/68	5050			--	--	14200	--	--	--	--	--	--	--	4560	--	--	--	--	7950	--
	5050													128.59						
														90						
08/01/68	5050			--	--	14700	--	--	--	--	--	--	--	4850	--	--	--	--	8770	--
	5050													136.77						
														93						
08/08/68	5050			--	--	15600	--	--	--	--	--	--	--	5250	--	--	--	--	9390	--
	5050													148.05						
														94						
09/13/68	5050			--	--	14900	--	--	--	--	--	--	--	5390	--	--	--	--	8180	--
	5050													152.00						
														102						
09/24/68	5050			--	--	11900	--	--	--	--	--	--	--	4420	--	--	--	--	6830	--
	5050													124.64						
														104						
09/27/68	5050			--	--	13500	--	--	--	--	--	--	--	4850	--	--	--	--	8130	--
	5050													136.77						
														101						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP		PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
								CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
				E3 1100.50				NAPA RIVER AT OUTTON LANDING													
10/04/67	5050		5.9	63	F	--	19400	--	--	--	--	--	--	--	6430	--	--	--	--	12800	--
0755	5050		62	17	C	7.3									181.33						
															93						
12/05/67	5050		7.7	53	F	--	18800	--	--	--	--	--	--	--	6260	--	--	--	--	11400	--
1025	5050		71	12	C	7.4									176.53						
															93						
02/15/68	5050		8.1	54	F	--	7660	--	--	--	--	--	--	--	2280	--	--	--	--	4400	--
0825	5050		76	12	C	7.7									64.30						
															83						
04/15/68	5050		7.0	64	F	--	8390	--	--	--	--	--	--	--	2520	--	--	--	--	4920	--
0930	5050		74	18	C	7.5									71.06						
															84						
06/11/68	5050		6.8	70	F	--	21800	--	--	--	--	--	--	--	7220	--	--	--	--	13500	--
0825	5050		77	21	C	8.1									203.60						
															93						
08/08/68	5050		5.9	71	F	--	34400	--	--	--	--	--	--	--	11400	--	--	--	--	22300	--
0800	5050		68	22	C	7.6									321.48						
															93						
				E3 1500.00				NAPA RIVER NEAR ST. HELENA													
05/16/68	5050	.82	8.5	71	F	7.8	304	22	11	22	2.6	0.0	119	16	19	9.6	--	0.5	38	195	102
1430	5050	11	97	22	C	7.4		1.10	.90	.96	.07		1.95	.33	.54	.15				199	5
								36	30	32	2		66	11	18	5					
				E5 1150.00				ALAMEDA CREEK NEAR NILES													
10/17/67	5050	2.83	9.3	61	F	8.2	928	--	--	93	--	0.0	230	--	106	--	--	0.8	--	--	282
0705	5050	19	95	16	C	7.2				4.05			3.77		2.99						94
										43			40		32						
11/21/67	5050	3.25	10.2	58	F	8.0	669	--	--	72	--	0.0	145	--	90	--	--	0.4	--	--	187
1030	5050	70	100	14	C	8.0				3.13			2.38		2.54						68
										46			35		37						
12/14/67	5050	3.40	11.5	41	F	8.0	583	--	--	65	--	0.0	106	--	82	--	--	0.4	--	--	114
0800	5050	98	90	5	C	7.8				2.83			1.74		2.31						27
										48			29		39						
01/23/68	5050	3.25	11.2	48	F	8.2	824	--	--	80	--	0.0	144	--	110	--	--	0.7	--	--	186
1015	5050	70	96	9	C	8.0				3.48			2.36		3.10						68
										42			28		37						
02/08/68	5050	2.90	10.5	46	F	8.2	925	--	--	68	--	0.0	252	--	90	--	--	0.7	--	--	294
1250	5050	26	88	8	C	8.0				2.96			4.13		2.54						88
										32			44		27						
03/13/68	5050	3.79	10.4	52	F	7.8	538	--	--	37	--	0.0	105	--	58	--	--	0.4	--	--	141
1005	5050	203	95	11	C	7.6				1.61			1.72		1.64						55
										29			31		30						
04/12/68	5050	3.37	10.0	60	F	8.1	518	--	--	45	--	0.0	117	--	59	--	--	0.0	--	--	153
1245	5050	92	101	16	C	8.0				1.96			1.92		1.66						57
										37			37		32						
05/22/68	5050	3.14	9.0	65	F	8.0	444	22	16	41	2.3	0.0	117	32	49	6.7	--	0.3	12	240	120
0930	5050	52	96	18	C	7.7		1.10	1.32	1.78	.06		1.92	.67	1.38	.11				239	24
								26	31	42	1		47	16	34	3					
06/14/68	5050	3.18	9.3	68	F	8.5	452	--	--	40	--	3.0	119	--	47	--	--	0.2	--	--	120
1015	5050	58	103	20	C	8.0				1.74		.10	1.95		1.33						18
										38		2	43		29						
07/02/68	5050	3.21	9.1	68	F	8.3	431	--	--	38	--	0.0	113	--	46	--	--	0.1	--	--	112
1000	5050	63	101	20	C	7.7				1.65			1.85		1.30						20
										38			42		30						
09/05/68	5050	3.18	8.4	71	F	8.1	1070	--	--	83	--	0.0	431	--	58	--	--	0.5	--	--	388
0915	5050	58	96	22	C	7.6				3.61			7.07		1.64						35
										33			66		15						
				E5 1400.00				ARROYO DEL VALLE NEAR LIVERMORE													
01/18/68	5050	2.35	11.3	44	F	--	--	57	41	42	--	--	--	119	39	--	0.2	0.4	--	450	310
0900	5050	5.7	92	7	C	7.8	660	2.84	3.37	1.83				2.48	1.10						310
02/01/68	5050	3.05	12.2	45	F	--	416	34	21	18	--	--	--	52	13	--	0.3	0.4	--	264	172
1005	5050	80	101	7	C	8.1	380	1.70	1.73	.78				1.08	.37						172
								40	41	18				25	8						
03/06/68	5050	2.38	11.1	55	F	--	608	45	32	35	--	--	--	79	24	--	0.2	0.5	--	299	246
0915	5050	6.9	105	13	C	8.1	545	2.25	2.63	1.52				1.64	.68						246
								37	43	25				26	11						
04/03/68	5050	2.46	13.2	56	F	--	586	49	31	30	1.4	--	--	66	19	--	0.2	0.5	--	325	248
0850	5050	11	127	13	C	8.3	505	2.45	2.55	1.31	.04			1.37	.54						248
								41	43	22				23	9						
05/01/68	5050	2.22	10.1	70	F	8.4	701	50	36	45	2.1	4.0	263	93	35	0.4	--	0.6	9.0	396	273
1355	5050	1.6	114	21	C	8.4		2.50	2.96	1.96	.05	.13	4.31	1.93	.99	.01				404	51
								33	40	26	1	2	58	26	13						

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLE#	G.H. ft	DO SAT	TEMP		PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	MILLIGRAMS PER LITER TDS SUM	TH NCH
		E5 1400.00						ARROYO DEL VALLE NEAR LIVERMORE													CONTINUED
06/05/68	5050	2.10	9.2	64	F	--	1210	64	54	103	--	--	--	184	107	--	0.2	1.9	--	724	390
1015	5050	0.0	97	18	C	8.2	1000	3.19	4.44	4.48				3.83	3.02						380
								26	36	37				31	24						
		E6 4250.00						COYOTE CREEK NEAR MADRONE													
05/21/68	5050	2.44	10.4	54	F	8.3	363	33	16	17	2.1	0.0	165	29	11	1.4	--	0.1	7.3	193	147
0930	5050	63	97	12	C	8.0		1.65	1.32	.74	.05		2.71	.60	.31	.02				198	12
								44	35	20	1		74	16	9	1					
		E6 5250.00						LOS GATOS CREEK AT LOS GATOS													
05/21/68	5050	3.41	10.3	55	F	8.2	388	40	15	16	1.7	0.0	141	59	9.8	0.3	--	0.0	12	224	162
1145	5050	11	97	13	C	7.8		2.00	1.23	.70	.04		2.31	1.23	.28					223	47
								50	31	18	1		60	32	7						
		F8 2100.50						NAVARRO RIVER NEAR NAVARRO													
09/09/68	5050		10.4	68	F	7.6	282	25	12	14	1.3	0.0	143	8.4	8.8	0.0	--	0.0	--	147	110
1210	5050	12	115	20	C	7.4		1.25	.99	.61	.03		2.35	.17	.25					140	0
								43	34	21	1		85	6	9						
		F8 2720.00						BIG RIVER NEAR MOUTH													
09/09/68	5050	6.42	9.9	65	F	7.8	216	19	7.4	12	1.4	0.0	116	3.4	1.0	0.0	--	0.1	--	120	78
1610	5050	8.0	106	18	C	7.4		.95	.61	.52	.04		1.90	.07	.03					101	0
								45	29	25	2		95	4	2						
		F8 3080.50						NOYO RIVER NEAR FORT BRAGG													
09/10/68	5050	10.64	8.2	60	F	7.5	181	17	5.5	12	1.4	0.0	90	3.6	8.5	0.0	--	0.0	--	112	65
0800	5050	2.8	83	16	C	7.1		.85	.45	.52	.04		1.48	.07	.24					92	0
								46	24	28	2		83	4	13						
		F9 1080.50						RUSSIAN RIVER AT GUERNEVILLE													
11/15/67	5050	4.33	8.5	60	F	8.2	322	--	--	17	--	0.0	149	--	13	--	--	0.3	--	--	126
0810	5050	401	86	16	C	7.7				.74			2.44		.37						4
										22			75		11						
01/23/68	5050	7.04	10.0	52	F	8.2	263	--	--	7.8	--	0.0	130	--	5.9	--	--	0.3	--	--	115
0810	5050	1890	91	11	C	7.5				.34			2.13		.17						9
										12			80		6						
03/20/68	5050	12.55	10.6	54	F	8.0	194	--	--	6.4	--	0.0	98	--	3.2	--	--	0.1	--	--	82
0825	5050	5650	99	12	C	7.8				.28			1.61		.09						2
										14			82		4						
05/22/68	5050	3.86	9.5	69	F	8.2	369	30	19	15	1.8	0.0	183	17	12	2.0	--	0.4	15	196	154
0810	5050	190	105	21	C	8.2		1.50	1.56	.65	.05		3.00	.35	.34	.03				202	4
								40	41	17	1		81	9	9	1					
07/09/68	5050	3.79	8.8	74	F	8.3	291	--	--	10	--	0.0	113	--	6.6	--	--	0.3	--	--	112
0820	5050	180	104	23	C	8.1				.44			1.85		.19						20
										15			63		6						
09/04/68	5050	3.81	8.3	70	F	8.0	576	--	--	57	--	0.0	127	--	85	--	--	0.2	--	--	132
0630	5050	194	94	21	C	8.2				2.48			2.08		2.40						28
										43			35		41						
		F9 1500.00						RUSSIAN RIVER NEAR HEALDSBURG													
05/16/68	5050	1.38	11.4	72	F	8.5	318	30	18	10	1.2	5.0	162	17	7.0	2.5	--	0.5	12	166	150
1130	5050	198	132	22	C	8.8		1.50	1.48	.44	.03	.17	2.66	.35	.20	.04				183	9
								43	43	13	1	5	78	10	6	1					
		F9 1765.00						RUSSIAN RIVER NEAR HOPLAND													
05/14/68	5050	4.38	10.0	65	F	7.8	244	22	11	12	1.3	0.0	122	11	7.3	3.4	--	0.4	11	140	99
1000	5050	108	107	18	C	7.5		1.10	.90	.52	.03		2.00	.23	.21	.05				139	0
								43	35	20	1		80	9	8	2					
		F9 4900.00						RUSSIAN RIVER, E.F., AT POTTER VALLEY POWERHOUSE													
05/14/68	5050	1.40	9.9	57	F	8.0	169	18	6.8	6.2	0.9	0.0	90	7.9	3.1	0.0	--	0.4	9.6	95	73
0830	5050	47	96	14	C	7.8		.90	.56	.27	.02		1.48	.15	.09					97	0
								51	32	15	1		86	9	5						

TABLE D-3

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Four of the several column headings in the following table show:

Turbidity - The values are shown in Hellige turbidity units.

MBAS - Methylene blue active substances are a measure of detergents ABS and LAS.

As - Arsenic.

PO_4 - Phosphates as PO_4.

TABLE D-3

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

CENTRAL COASTAL AREA

Station	Station Number	Date	Turbidity Units	MBAS in mg/l	As in mg/l	PO4 in mg/l	Other Constituents mg/l	
ALAMEDA CREEK NEAR NILES	E51150.00	10-17-67	10					
		11-21-67	25					
		12-14-67	20					
		1-23-68	30					
		2-08-68	2					
		3-13-68	450					
		4-12-68	55					
		5-22-68	41		0.01	4.0		
		6-14-68	40					
		7-02-68	45					
		9-05-68	4					
ARROYO DEL VALLE NEAR LIVERMORE	E51400.00	1-18-68			0.00	0.02	Chromium	0.00
							Copper	0.00
							Iron Total	1.6
							Lead	0.01
							Manganese	0.00
							Phenols	0.001
							Selenium	0.00
							Zinc	0.00
		2-01-68			0.00	0.27	Chromium	0.00
							Copper	0.00
							Iron Total	16
							Lead	0.00
							Manganese	0.02
							Phenols	0.000
							Selenium	0.01
							Zinc	0.00
		3-06-68			0.00	0.03	Chromium	0.00
							Copper	0.07
							Iron Total	0.46
							Iron Dissolved	0.07
							Lead	0.00
							Manganese	0.05
							Phenols	0.000
							Selenium	0.00
							Zinc	0.00
		4-03-68			0.00	0.02	Chromium	0.00
							Copper	0.00
							Iron Total	1.1
							Iron Dissolved	0.02
							Lead	0.00
							Manganese	0.02
							Phenols	0.000
							Selenium	0.00
							Zinc	0.00
		5-01-68	3		0.00	0.02		
		6-05-68			0.00	0.06	Chromium	0.00
							Copper	0.00
							Iron Total	0.21
							Iron Dissolved	0.01
							Lead	0.00
							Phenols	0.000
							Selenium	0.00
							Zinc	0.00
CARMEL RIVER AT ROBLES DEL RIO	D41200.00	5-08-68	2		0.00	0.03		
COYOTE CREEK NEAR MADRONE	E64250.00	5-21-68	4		0.01	0.03		
LOS GATOS CREEK AT LOS GATOS	E65250.00	5-21-68	14		0.00	0.02		
NACIMIENTO RIVER NEAR SAN MIGUEL	D33520.00	5-07-68	4		0.00	0.02		
		9-04-68			0.02		Aluminum	0.02
							Copper	0.00
							Iron Dissolved	0.00
							Lead	0.00
							Manganese	0.00
							Zinc	0.00
NAPA RIVER AT DUTTONS LANDING	E31100.50	10-04-67					Suspended Solids	32
		12-05-67					Suspended Solids	31
		2-15-68					Suspended Solids	48
		4-15-68					Suspended Solids	85
		6-11-68					Suspended Solids	41
		8-08-68					Suspended Solids	36
NAPA RIVER NEAR ST. HELENA	E31500.00	5-16-68	10		0.01	0.32		

TABLE D-3

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

CENTRAL COASTAL AREA

Station	Station Number	Date	Turbidity Units	MBAS in mg/l	As in mg/l	PO4 in mg/l	Other Constituents mg/l	
PAJARO RIVER AT CHITTENDEN	D11250.00	11-15-67	25					
		1-17-68	20					
		3-20-68	20					
		5-09-68	4		0.01	0.26		
		7-09-68	60					
		9-04-68			0.02		Aluminum	0.04
							Copper	0.00
							Iron Dissolved	0.00
							Lead	0.00
							Manganese	0.00
							Zinc	0.00
RUSSIAN RIVER AT GUERNEVILLE	F91080.50	11-15-67	25					
		1-23-68	35					
		3-20-68	100					
		5-22-68	10		0.00	0.69		
		7-09-68	15					
		9-04-68	35					
RUSSIAN RIVER NEAR HEALDSBURG	F91500.00	5-16-68	2		0.00	0.02		
RUSSIAN RIVER NEAR HOPLAND	F91765.00	5-14-68	8		0.00	1.0		
RUSSIAN RIVER, EAST FORK, AT POTTER VALLEY POWERHOUSE	F94900.00	5-14-68	3		0.00	0.03		
SALINAS RIVER NEAR BRADLEY	D21850.00	5-07-68	6		0.01	0.08		
		9-04-68			0.01		Aluminum	0.02
							Copper	0.01
							Iron Dissolved	0.00
							Lead	0.00
							Manganese	0.00
							Zinc	0.00
SALINAS RIVER NEAR CHULAR	D21310.10	9-04-68			0.00		Aluminum	0.02
							Copper	0.00
							Iron Dissolved	0.00
							Lead	0.01
							Manganese	0.00
							Zinc	0.00
SALINAS RIVER NEAR SPRECKELS	D21220.00	11-15-67	25					
		1-17-68	5					
		3-20-68	75					
		5-09-68	10		0.01	36		
		7-09-68	7					
		9-04-68			0.03		Aluminum	0.03
							Copper	0.00
							Iron Dissolved	0.00
							Lead	0.00
							Mangsnese	0.00
							Zinc	0.00
SAN BENITO RIVER NEAR BEAR VALLEY FIRE STATION	D12450.00	5-07-68	100		0.02	0.28		
		9-04-68			0.00		Aluminum	0.04
							Copper	0.00
							Iron Dissolved	0.00
							Lead	0.00
							Manganese	0.00
							Zinc	0.00
SAN FRANCISCO BAY AT FORT POINT	E0B74842282	10-04-67					Suspended Solids	19
		12-04-67					Suspended Solids	14
		2-16-68					Suspended Solids	13
		4-16-68					Suspended Solids	19
		6-12-68					Suspended Solids	35
		8-09-68					Suspended Solids	15
SAN FRANCISCO BAY AT SAN MATEO BRIDGE	E0B73622116	10-05-67					Suspended Solids	83
		12-04-67					Suspended Solids	69
		2-16-68					Suspended Solids	31
		4-16-68					Suspended Solids	205
		6-12-68					Suspended Solids	29
		8-09-68					Suspended Solids	16
SAN FRANCISCO BAY AT TREASURE ISLAND	E0B74922224	10-05-67					Suspended Solids	26
		12-05-67					Suspended Solids	18
		2-15-68					Suspended Solids	13
		4-15-68					Suspended Solids	38
		6-11-68					Suspended Solids	13
		8-08-68					Suspended Solids	29

TABLE D-3

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

CENTRAL COASTAL AREA

Station	Station Number	Date	Turbidity Units	MBAS in mg/l	As in mg/l	PO4 in mg/l	Other Constituents mg/l	
SAN LORENZO RIVER AT BIG TREES	D01200.00	11-21-67	7					
		1-23-68	7					
		3-13-68	20					
		5-22-68	2		0.01	0.43		
		7-02-68	4					
		9-05-68	3					
SAN PABLO BAY AT POINT SAN PABLO	E0B75772256	10-04-67					Suspended Solids	40
		12-05-67					Suspended Solids	50
		2-16-68					Suspended Solids	98
		4-16-68					Suspended Solids	55
		6-12-68					Suspended Solids	26
		8-09-68					Suspended Solids	22
SOQUEL CREEK AT SOQUEL	D03100.00	5-21-68	1		0.00	0.30		
SUISUN BAY AT BENICIA	E0B80242082	10-05-67					Suspended Solids	186
		12-05-67					Suspended Solids	69
		2-15-68					Suspended Solids	160
		4-15-68					Suspended Solids	620
		6-11-68					Suspended Solids	678
		8-08-68					Suspended Solids	440
UVAS CREEK NEAR MORGAN HILL	D11371.50	5-08-68	25		0.00	0.02		
		9-04-68			0.00		Aluminum	0.02
							Copper	0.00
							Iron Dissolved	0.00
							Lead	0.01
							Manganese	0.00
							Zinc	0.00

TABLE D-4

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS*

(Chlorides in Milligrams Per Liter)

Station	Station Number	October 1967							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	8,830	9,640	8,170	9,800		9,170		9,480
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078		4,400 a	4,720	4,640	5,130 a	5,590	6,080	
SUISUN BAY AT PORT CHICAGO	E0B80342023	1,050		2,150	1,700		3,790	2,210	2,860
SUISUN BAY AT NICHOLS	E0B80301590	1,290 a		1,310 a	1,680	3,040	2,810	1,820	2,360
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	75 ade	83		49	60	86		37
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	26 a		23 a	27	24	29 ad		20

Station	Station Number	November 1967							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133		8,800	6,810			9,100	10,000	11,700
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	5,200 a	7,250	6,060	4,180 a		5,270	5,990	8,360
SUISUN BAY AT PORT CHICAGO	E0B80342023	3,880	3,700	1,460		3,580	3,160	4,690 ed	6,750
SUISUN BAY AT NICHOLS	E0B80301590	3,600					1,550	4,010	
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	84	100 a	96 abd	87 d	157	129	96	193
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	93	31 a	30		220	40 a	16	

Station	Station Number	December 1967							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	10,100	7,710	6,920	7,330	11,400		9,460	10,300
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	5,270 a	6,220 a	3,180 ae	2,260	7,960 a	5,220 a	5,630 ae	8,310
SUISUN BAY AT PORT CHICAGO	E0B80342023	4,240	2,610			6,190	2,180	5,030	
SUISUN BAY AT NICHOLS	E0B80301590	4,310 d	2,230		1,390	5,320			5,070
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	170		49	36	336		59	172
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	340	42 a	25	49	74 a	18 bd	100	191

Station	Station Number	January 1968							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	Broken	7,660		8,860	6,460	7,180	8,860	8,520
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	4,860 ad	2,510 d	7,690 a	7,920		5,240	7,060	4,880 a
SUISUN BAY AT PORT CHICAGO	E0B80342023		2,770	9,340	4,590	1,640	3,830		
SUISUN BAY AT NICHOLS	E0B80301590	862	2,540	7,850	4,090	1,100	1,590	4,310	2,590
SACRAMENTO RIVER AT PITTSBURG	B9D80231530		80	718 d	179 bd		36	68	132
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	68 a	40	142	295		20	86	21 a

* Samples taken at four-day intervals approximately one and one-half hours after high high tide.

a Taken after low high tide.

b Taken on following day.

c Taken two days later.

d Taken over one hour off scheduled time.

e Taken on preceding day.

TABLE D-4

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS*

(Chlorides in Milligrams Per Liter)

Station	Station Number	February 1968							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	4,790	6,100	7,660	7,400	7,110	4,410	3,430	
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	2,010	2,870	2,390	5,650	2,850 a	670 ae	190 a	
SUISUN BAY AT PORT CHICAGO	E0B80342023	431	302	1,630	1,770	1,050			
SUISUN BAY AT NICHOLS	E0B80301590	148	1,960	2,350		785	48	20	
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	38 a		28	32	35			
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	16	17	17	18		14	9	

Station	Station Number	March 1968							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	2,880	1,820	4,500	6,350	4,310 ad	5,760		7,420 a
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	610	274	1,860	3,580	147 a	2,450	980 a	4,580
SUISUN BAY AT PORT CHICAGO	E0B80342023	202		174		98			1,760
SUISUN BAY AT NICHOLS	E0B80301590	16	12	87	444	50	35	116	1,090
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	22		20		20	22 d	17	21 a
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	8	8		16	13	16	12	35 a

Station	Station Number	April 1968							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133		5,900	9,920	11,500	9,250	9,920		11,500
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	2,750 a	4,900 ae	8,000	5,000 a	9,050	6,550 a	8,180	9,920
SUISUN BAY AT PORT CHICAGO	E0B80342023	1,950 ad	1,120	3,750	5,100		4,200		
SUISUN BAY AT NICHOLS	E0B80301590		610	3,820	4,650	4,220	3,300		6,520
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	23 a	23	50 bd	187 a	204 d			
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	18	20	20		525	331 a		1,360

Station	Station Number	May 1968							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	11,200						12,000	11,500
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	6,790 a	7,830 a	10,400	6,920 a	9,100 ed	9,220	9,000	10,500
SUISUN BAY AT PORT CHICAGO	E0B80342023	7,050			9,190 ed	5,440		7,120	7,250
SUISUN BAY AT NICHOLS	E0B80301590	6,420	4,910 ad	7,100		4,540	2,140	5,980	4,030
SACRAMENTO RIVER AT PITTSBURG	B9D80231530			894 a		971		750 a	
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	1,540	940 a		1,630	1,700 f	1,425 f	1,750 f	1,800 f

* Samples taken at four-day intervals approximately one and one-half hours after high high tide.

a Taken after low high tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Values from chloride recorder.

TABLE D-4

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS*

(Chlorides in Milligrams Per Liter)

Station	Station Number	June 1968							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	10,200	12,900 a	13,500	12,600	13,100 a	12,600	14,000	11,500
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	8,250	8,470	9,170 a	10,200	9,120 e	8,740 a	10,400 a	9,930
SUISUN BAY AT PORT CHICAGO	E0B80342023	4,950			8,010	7,180 e	7,480	10,400	7,810
SUISUN BAY AT NICHOLS	E0B80301590	4,650	6,530	8,830	7,090	6,500 e	7,520	6,260 a	7,060
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	1,080		1,800 d			1,110 a	1,750 a	1,790
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513			1,440 a	1,700 d	1,630 a	1,710 a	2,220 ad	

Station	Station Number	July 1968							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133	13,600		14,600	12,800	14,800 e	13,300		
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	10,400 a	11,800 a	12,600	10,700	8,180 a	12,500	13,600	8,320
SUISUN BAY AT PORT CHICAGO	E0B80342023	8,180	9,590	10,600	8,230	8,540 e	10,300	6,820 a	7,980
SUISUN BAY AT NICHOLS	E0B80301590	7,280	9,370	9,590	7,350	7,640 e	9,420	9,730	8,200
SACRAMENTO RIVER AT PITTSBURG	B9D80231530		2,340 a		2,820 a		2,730 a		
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	2,420 a	2,600 a	2,510 a	2,630 a		2,740 a	3,820 bd	2,720

Station	Station Number	August 1968							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133				13,600	13,100 e		12,400	13,600
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	11,100 e	11,200	10,500 a	8,620 a	9,930 e	8,570 a	9,610	10,200
SUISUN BAY AT PORT CHICAGO	E0B80342023	9,250 e	10,700 bd	9,420	8,490		5,390 a	6,160	8,960
SUISUN BAY AT NICHOLS	E0B80301590			8,470	7,860	7,620 e	7,480	5,990	8,280
SACRAMENTO RIVER AT PITTSBURG	B9D80231530		1,890 a	2,230 a		1,610 a	1,350 abd		1,130 a
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	2,130 a	2,110			1,670 ad	1,560 a	1,650	1,100 a

Station	Station Number	September 1968							
		2	6	10	14	18	22	26	30
CARQUINEZ STRAIT AT CROCKETT	E0B80352133		13,600	12,900	11,300	11,300	13,000		11,100 d
CARQUINEZ STRAIT AT MARTINEZ	E0B80192078	8,930 a	11,200	9,940	7,810 a	8,790	8,650	8,060 ade	12,500 a
SUISUN BAY AT PORT CHICAGO	E0B80342023	9,220 e	8,400	6,540	7,370	8,280 b	4,750 a	8,080	8,650 a
SUISUN BAY AT NICHOLS	E0B80301590	7,090 e	3,110 a	5,980	5,520		4,640	7,780	7,620
SACRAMENTO RIVER AT PITTSBURG	B9D80231530	1,360 a	1,270 a	1,080 b	874 a	969 a	762 a		1,190 a
SACRAMENTO RIVER AT COLLINSVILLE	B9D80441513	1,250 bda	1,710 a	1,650	928 a	1,250 ad	1,040 a	1,650	1,630 d

* Samples taken at four-day intervals approximately one and one-half hours after high high tide.

a Taken after low high tide.

b Taken on following day.

c Taken two days later.

d Taken over one hour off scheduled time.

e Taken on preceding day.

TABLE D-5

NUTRIENTS IN SURFACE WATER

Abbreviations and Chemical Codes

NITRATE SERIES

NO_3 - Nitrate

NO_2 - Nitrite

ORG - Organic Nitrogen

NH_4 - Ammonium

TOTAL - Total Nitrogen

N - Nitrogen

PHOSPHATE SERIES

ORTHO - Ortho-Phosphate (not filtered)

HYDRO - Hydrolizable Phosphates (not filtered)

TOTAL - Total and Organic Phosphates (not filtered)

SAMP - Codes for agency collecting sample

5001 - U. S. Bureau of Reclamation

5050 - Department of Water Resources

LAB Codes for laboratory performing analysis

5006 - Laboratory at McClellan Air Force Base used by U. S. Bureau of Reclamation

5050 - Department of Water Resources Laboratory at Bryte

TABLE D-5
NUTRIENTS IN SURFACE WATER

DATE TIME	NUTRIENTS (Mg/L) NITROGEN SERIES AS N NO_3	NO_2	ORG	NH_4	TOTAL	PHOSPHATE SERIES AS P ORTHO	HYDRO	TOTAL	MISCELLANEOUS NUTRIENTS CODE VALUE UR	CODE VALUE UR	CODE VALUE UR	CODE VALUE UR	SAMP	LAB
DO 1200.00 SAN LORENZO RIVER AT BIG TREES														
11-21-67 0735	0.4	0.00	0.3	0.13		0.18	0.02	0.26					5050	5050
01-23-68 0745	0.3	0.00	0.1	0.10		0.13	0.05	0.22					5050	5050
03-13-68 0745	0.2	0.00	0.6	0.14		0.15	0.13	0.4					5050	5050
05-22-68 0550	0.22	0.00	0.2	0.07		0.13	0.05	0.20					5050	5050
07-02-68 0635	0.16	0.00	0.2	0.01		0.18	0.09	0.28					5050	5050
09-05-68 0630	0.02	0.00	0.2	0.06		0.05	0.04	0.10					5050	5050
DO 3100.00 SOQUEL CREEK NEAR SOQUEL														
05-21-68 1400						0.10							5050	5050
01 1250.00 PAJARO RIVER AT CHITTENDEN														
11-11-67 0800	5.3	0.06	0.9	0.19		0.09	0.01	0.13					5050	5050
01-17-68 0845	6.5	0.04	0.9	0.42		0.09	0.04	0.17					5050	5050
03-20-68 0830	2.5	0.06	0.8	0.18		0.08	0.05	0.15					5050	5050
05-09-68 0840	7.0	0.10	1.2	0.16		0.09	0.05	0.14					5050	5050
07-09-68 0815	1.8	0.04	1.4	0.07		0.11	0.04	0.27					5050	5050
D1 1371.50 UVAS CREEK NEAR MORGAN HILL														
05-21-68 1400						0.01							5050	5050
D2 1220.00 SALINAS RIVER NEAR SPRECKELS														
11-15-67 0645	0.8	0.04	0.7	0.69		0.29	0.11	0.4					5050	5050
01-17-68 0700	4.4	0.22	1.6	8.1		3	2	5					5050	5050
03-20-68 0645	0.4	0.03	1.1	0.31		0.24	0.26	0.5					5050	5050
05-09-68 0700	2.5	0.83	2.8	9.4		8	5	13					5050	5050
07-09-68 0650	3.3	0.14	2.0	13		14	4	19					5050	5050
EO B 736.2 211.6 SAN FRANCISCO BAY AT SAN MATEO BRIDGE														
10-05-67 0740	0.6	0.02	0.4	0.03		0.31	0.09	0.4					5050	5050
12-04-67 0745	0.6	0.02	1.1	0.50		0.28	0.12	0.5					5050	5050
02-16-68 0745	0.8	0.03	0.5	0.04		0.17	0.09	0.4					5050	5050
04-16-68 0850	0.21	0.00	0.3	0.00		0.18	0.12	0.4					5050	5050
06-12-68 0740	0.09	0.00	0.5	0.15		0.17	0.13	0.5					5050	5050
08-09-68 0710	0.2	0.00	0.0	0.08		0.20	0.07	0.3					5050	5050
EO B 748.4 228.2 SAN FRANCISCO BAY AT FORT POINT														
10-05-67 0740	0.3	0.01	0.2	0.03		0.08	0.01	0.10					5050	5050
12-04-67 0855	0.2	0.01	0.9	0.21		0.07	0.03	0.14					5050	5050
02-16-68 0845	0.5	0.01	0.3	0.03		0.06	0.02	0.10					5050	5050
04-16-68 0940	0.27	0.01	0.2	0.29		0.06	0.03	0.11					5050	5050
06-12-68 0820	0.32	0.01	0.4	0.36		0.09	0.11	0.32					5050	5050
08-09-68 0750	0.3	0.01	0.2	0.03		0.12	0.01	0.17					5050	5050

TABLE D-5
NUTRIENTS IN SURFACE WATER

DATE TIME	NUTRIENTS (Mg/L)								MISCELLANEOUS NUTRIENTS								SAMP	LAB
	NITROGEN SERIES AS N					PHOSPHATE SERIES AS P			CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR		
	NO_3	NO_2	ORG	NH_4	TOTAL	ORTHO	HYDRO	TOTAL														
EO B 749.2 222.4 SAN FRANCISCO BAY AT TREASURE ISLAND																						
10-05-67 0615	0.3	0.01	0.2	0.03		0.09	0.02	0.11													5050	5050
12-05-67 0905	0.4	0.01	0.6	0.12		0.10	0.09	0.21													5050	5050
02-15-68 0710	0.4	0.02	0.3	0.11		0.08	0.07	0.20													5050	5050
04-15-68 0810	0.29	0.01	0.0	0.00		0.11	0.04	0.17													5050	5050
06-11-68 0704	0.27	0.01	1.4	0.04		0.10	0.04	0.20													5050	5050
08-08-68 0650	0.3	0.01	0.7	0.04		0.13	0.02	0.25													5050	5050
EO B 757.7 225.6 SAN PABLO BAY AT POINT SAN PABLO																						
10-04-67 0805	0.4	0.03	0.7	0.07		0.09	0.03	0.15													5050	5050
12-05-67 1045	0.5	0.02	0.6	0.00		0.09	0.05	0.19													5050	5050
02-16-68 0945	0.6	0.02	0.8	0.15		0.07	0.09	0.20													5050	5050
04-16-68 1040	0.50	0.04	1.8	0.34		0.09	0.08	0.22													5050	5050
06-12-68 0920	0.84	0.09	2.7	1.2		0.19	0.11	0.4													5050	5050
08-09-68 0855	0.4	0.03	0.0	0.04		0.09	0.03	0.17													5050	5050
EO B 802.3 207.1 SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ																						
02-27-68 1245	0.5	<0.1	0.36	0.25	1.11	0.13		0.16													5001	5006
03-29-68 0945	<0.10	<0.10	0.63	0.12	0.75	0.05		0.14													5001	5006
04-23-68 1205	0.6	<0.1	0.82	<0.05	1.42	0.05		0.07													5001	5006
05-20-68 1230	<0.5	<0.5	0.70	<0.05	0.70	0.12		0.15													5001	5006
08-16-68 1325	0.2	<0.1	0.8	<0.1	1.0	0.08		0.16													5001	5006
09-05-68 1325	<0.1	<0.1	1.7	<0.1	1.7	<0.1		<0.1													5001	5006
09-27-68 0900	0.4	<0.1	0.5	0.4	1.3	0.10		0.11													5001	5006
EO B 802.8 155.0 SACRAMENTO RIVER AT CHIPPS ISLAND																						
01-26-68 1108	0.45	<0.05	0.37	0.04	0.86	0.00		0.32													5001	5006
02-27-68 1340	0.5	<0.1	0.41	0.18	1.09	0.20		0.22													5001	5006
05-20-68 1240	<0.5	<0.5	1.50	0.0	1.50	0.13		0.17													5001	5006
06-18-68 1305	0.2	0.0	1.20	0.0	1.40	0.0		0.17													5001	5006
07-18-68 1245	0.4	<0.1	0.75	<0.1	0.75	<0.1		0.1													5001	5006
08-02-68 0845	0.2	<0.1	<0.1	0.1	0.2	<0.16		<0.16													5001	5006
08-15-68 1100	0.3	<0.1	<0.1	<0.1	0.3	0.08		0.26													5001	5006
09-27-68 1025	0.3	<0.1	0.6	<0.1	0.9	0.10		0.12													5001	5006
EO B 802.8 207.1 SUISUN BAY NEAR BENICIA																						
01-26-68 1015	0.70	<0.05	0.38	0.14	1.22	0.08		0.80													5001	5006
02-27-68 1230	0.3	<0.1	0.30	0.13	0.73	0.09		0.13													5001	5006
EO B 803.2 204.8 SUISUN BAY ABOVE AVON PIER																						
09-27-68 0925	0.4	<0.1	0.5	<0.1	0.9	0.10		0.11													5001	5006

TABLE D-5
NUTRIENTS IN SURFACE WATER

DATE TIME	NUTRIENTS (Mg/L)								MISCELLANEOUS NUTRIENTS								SAMP	LAB
	NITROGEN SERIES AS N					PHOSPHATE SERIES AS P			CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR	CODE VALUE UR		
	NO_3	NO_2	ORG	NH_4	TOTAL	ORTHO	HYDRO	TOTAL												
EO B 803.6 159.3 SUISUN BAY OFF MIDDLE POINT																				
01-26-68 1043	0.60	<0.05	0.21	0.28	1.09	0.12		0.76										5001	5006	
02-27-68 1305	0.5	<0.1	0.56	0.10	1.16	0.09		0.17										5001	5006	
03-20-68 1220	1.7	<0.1	0.69	0.17	2.66	0.06		0.08										5001	5006	
03-21-68 0001	1.7	<0.1	0.70	0.24	2.74	0.07		0.09										5001	5006	
03-21-68 0530	1.7	<0.1	0.56	0.40	2.66	1.00		1.50										5001	5006	
03-21-68 1210	2.2	<0.1	0.63	0.45	3.38	0.04		0.23										5001	5006	
05-20-68 1140	<0.5	<0.5	1.50	0.0	1.50	0.12		0.14										5001	5006	
06-18-68 1240	0.2	0.0	0.90	0.07	1.17	<0.01		0.01										5001	5006	
07-18-68 1220	0.4	<0.1	0.9	<0.1	1.3	0.12		0.16										5001	5006	
08-15-68 1040	0.3	<0.1	<0.1	<0.1	0.3	0.06		0.06										5001	5006	
09-27-68 1000	0.3	<0.1	0.8	<0.1	1.1	0.10		0.11										5001	5006	
EO B 804.0 203.0 SUISUN BAY NEAR PRESTON POINT																				
09-27-68 0945	0.3	<0.1	0.6	* 0.1	0.9	0.10		0.12										5001	5006	
EO B 804.4 156.2 HONKER BAY NEAR WHEELER POINT																				
01-11-68 1103	0.09	0.0	0.33	0.12	0.54	1.15		3.2										5001	5006	
02-26-68 1300	0.5	<0.I	0.37	0.10	0.97	0.23		0.43										5001	5006	
03-20-68 2000	1.7	<0.1	0.48	0.09	2.37	0.08		0.11										5001	5006	
03-21-68 0215	1.7	<0.1	0.75	0.15	2.60	0.07		0.09										5001	5006	
03-21-68 0805	1.7	<0.1	0.55	0.25	2.50	0.15		0.23										5001	5006	
03-21-68 1405	1.7	<0.1	0.55	0.10	2.35	0.18		0.19										5001	5006	
05-20-68 1200	<0.5	<0.5	1.05	0.0	1.05	0.13		0.15										5001	5006	
06-18-68 1215	0.4	0.0	1.31	0.08	1.79	0.0		0.17										5001	5006	
07-18-68 1155	0.4	<0.1	0.8	<0.1	1.2	0.1		0.16										5001	5006	
08-15-68 1020	0.3	<0.1	<0.1	<0.1	0.3	0.10		0.10										5001	5006	
09-26-68 0852	0.2	<0.1	0.8	<0.1	1.0	0.10		0.11										5001	5006	
EO B 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH																				
01-11-68 1035	0.41	0.0	0.45	0.07	0.93	1.05		1.2										5001	5006	
02-26-68 1230	0.5	<0.1	0.10	0.09	0.69	0.12		0.18										5001	5006	
03-20-68 1315	0.50	<0.10	1.11	0.08	1.69	0.08		0.24										5001	5006	
03-20-68 1900	1.7	<0.1	0.60	0.08	2.48	0.03		0.10										5001	5006	
03-21-68 0115	2.2	<0.1	1.20	0.20	3.60	0.12		0.72										5001	5006	
03-21-68 0700	1.7	<0.1	1.88	0.23	3.81	0.06		0.08										5001	5006	
03-21-68 1300	<0.1	<0.1	0.60	0.05	0.65	0.03		0.04										5001	5006	
05-20-68 1055	<0.5	<0.5	0.95	<0.05	0.95	0.14		0.17										5001	5006	
06-18-68 1130	0.1	0.0	1.62	0.12	1.84	<0.01		0.01										5001	5006	

TABLE D-5
NUTRIENTS IN SURFACE WATER

DATE TIME	NUTRIENTS (Mg/L)								MISCELLANEOUS NUTRIENTS								SAMP	LAB
	NITROGEN SERIES AS N					PHOSPHATE SERIES AS P			CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR	CODE	VALUE	UR		
	NO_3	NO_2	ORG	NH_4	TOTAL	ORTHO	HYDRO	TOTAL														
E0 B 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH (CONTINUED)																						
07-18-68 1120	0.0	<0.1	0.75	<0.1	0.75	0.1		0.22													5001	5006
08-15-68 0945	0.3	<0.1	<0.1	<0.1	0.3	0.10		0.14													5001	5006
09-26-68 0821	0.2	<0.1	0.6	<0.1	0.8	0.10		0.12													5001	5006
E3 1100.50 NAPA RIVER AT DUTTONS LANDING																						
10-04-67 0755	0.3	0.12	1.1	0.14		0.15	0.03	0.29													5050	5050
12-05-67 1025	0.7	0.03	1.0	0.00		0.06	0.01	0.12													5050	5050
02-15-68 0825	1.3	0.03	0.3	0.21		0.08	0.05	0.15													5050	5050
04-15-68 0930	1.00	0.03	0.8	0.24		0.13	0.07	0.23													5050	5050
06-11-68 0825	0.08	0.00	0.8	0.02		0.07	0.03	0.13													5050	5050
08-08-68 0800	0.2	0.01	0.7	0.00		0.09	0.06	0.21													5050	5050
E5 1150.00 ALAMEDA CREEK NEAR NILES																						
11-21-67 1030	1.9	0.05	0.6	0.19		0.8	0.5	1.4													5050	5050
01-23-68 1015	2.0	0.07	0.4	0.35		0.9	0.1	1.0													5050	5050
03-13-68 1005	1.6	0.04	1.8	0.41		1.0	0.3	1.4													5050	5050
05-22-68 0930	1.4	0.01	0.5	0.09		0.8	0.4	1.2													5050	5050
07-02-68 1000	0.65	0.00	0.4	0.00		0.32	0.18	0.5													5050	5050
09-05-68 0915	1.0	0.05	0.6	0.08		0.13	0.11	0.03													5050	5050
E5 1400.00 ARROYO DEL VALLE NEAR LIVERMORE																						
01-18-68 0900	0.3	0.00	0.2	0.18		0.01	0.00	0.02													5050	5050
02-01-68 1005	1.4	0.00	0.9	0.09		0.09	0.03	0.23													5050	5050
03-06-68 0915	0.0	0.00	0.2	0.17		0.01	0.00	0.02													5050	5050
04-03-68 0850	0.0	0.00	0.2	0.12		0.01	0.01	0.03													5050	5050
05-01-68 1355						0.01															5050	5050
06-05-68 1015	0.00	0.00	0.5	0.02		0.02	0.01	0.04													5050	5050
F9 1080.50 RUSSIAN RIVER AT GUERNEVILLE																						
11-15-67 0810	0.7	0.06	0.4	0.82		0.08	1.62	1.7													5050	5050
01-23-68 0810	0.7	0.01	0.2	0.25		0.10	0.05	0.17													5050	5050
03-20-68 0825	0.4	0.00	0.3	0.11		0.10	0.11	0.21													5050	5050
05-22-68 0810	0.31	0.02	0.4	0.06		0.20	0.05	0.29													5050	5050
07-09-68 0820	0.04	0.00	0.3	0.06		0.08	0.03	0.14													5050	5050
09-04-68 0630	0.83	0.00	0.4	0.06		0.5	0.1	0.6													5050	5050

TABLE D-6

PESTICIDES IN SURFACE WATER AND SEDIMENT

Abbreviations used in the following table include:

BHC - Benzene hexachloride

ppDDD - Para para isomer of dichloro diphenyl dichloroethane

ppDDE - Para para isomer of dichloro diphenyl ethane

DDT - Dichloro diphenyl trichlorethane

ppDDT - Para para isomer of dichloro diphenyl trichlorethane

Where two pesticides are reported together with a slash mark separating them (ppDDE/Dieldrin, Simazine/Atrazine, etc.), the reported concentration is an undifferentiated total of the two. Either of the two pesticides could make up the entire total.

TABLE D-6

PESTICIDES IN SURFACE WATER AND SEDIMENT

CENTRAL COASTAL AREA

Station	Station Number	Date and time sampled P.S.T.	Discharge in cfs	Specific conductance (micromhos at 25°C)	pH Field	Pesticides in Water (parts per trillion)	Pesticides in Sediment (parts per billion of dry weight)
NAPA RIVER AT DUTTONS LANDING	E31100.50	10- 4-67 0755		19400	7.3	BHC = 24 Dieldrin = 3 ppDDD = 5	
		2-15-68 0825		7660	7.7	BHC like = 7	
		6-11-68 0825		21800	8.1	BHC like = 8	
SAN FRANCISCO BAY AT COYOTE POINT	E0B73552194 (E0EH75.27)	10- 5-67 0800				No chlorinated pesticides detected	No chlorinated pesticides detected
		2-21-68 1030				BHC like = 6	
		6-10-68				Complex chlorinated compounds as DDT = 2100	
SAN FRANCISCO BAY AT FORT POINT	E0B74842282 (E0GJ47.72)	10- 5-67 0740		47100	8.4	No chlorinated pesticides detected	
		2-16-68 0845		42300	8.2	BHC like = 4	
		6-12-68 0820		48200	8.2	No chlorinated pesticides detected	
SAN FRANCISCO BAY AT SAN MATEO BRIDGE	E0B73622116 (E0EG85.33)	10- 5-67 0740		43700	8.1	No chlorinated pesticides detected	ppDDT = 1.2 Toxaphene like = 13
		2-16-68 0745		33400	8.0	BHC like = 12 Aldrin = 4 Dieldrin = 2	
		6-12-68 0740		45900	8.2	No chlorinated pesticides detected	
SAN FRANCISCO BAY AT TREASURE ISLAND	E0B74922224 (E0GH59.55)	10- 5-67 0615		46100	8.4	Unknown as DDT = 10 ppDDT = 4	
		2-15-68 0710		39400	7.4	BHC like = 2	
SAN PABLO BAY AT POINT SAN PABLO	E0B75772256 (E0HJ74.01)	10- 4-67 0805		31700	8.3	No chlorinated compounds detected	Toxaphene like = 110
		2-16-68 0945		30000	8.1	BHC like = 7	
		6-12-68 0920		41200	7.6	BHC like = 27	
SUISUN BAY AT BENICIA	E0B80242082 (E0JG30.19)	10- 5-67 0955		6010	8.0	Dieldrin = 4 ppDDD = 6 ppDDT = 3	BHC = 4.5 Toxaphene = 26
		12- 5-67 1200		13800	7.6	No chlorinated pesticides detected	
		2-15-68 1000		4330	7.2	Unknown as DDT = 4 BHC like = 4	
		4-15-68 1100		9220	7.9	BHC = 10	
		6-11-68 0955		18200	8.0	BHC like = 9 ppDDD = 4 Dieldrin = 2	
		8- 8-68 0930		23800	8.4	No chlorinated pesticides detected	

TABLE D-7

PLANKTON ANALYSIS OF SURFACE WATER

DATE TIME	PHYTOPLANKTON (NO/ML) TOTAL	BL-GR C/F	GREEN C/F	FLAG GR/O	DIATOMS C/P	MOST ABUNDANT PHYTOPLANKTON (GENUS / %) 1	2	3	4	5	6	7	8	ZOOPLANKTON (NO/ L) TOTAL	ROTIFER	CRUST	MISC	MOST ABUNDANT ZOOPLANKTON (GENUS/%) 1	2	3	SAMP	LAB
EO B 736.2 211.6 SAN FRANCISCO BAY AT SAN MATEO BRIDGE																						
10-05-67 0740	772			450	290/32	F 99 58.3	D 03 37.6	D 66 4.1						32	8	24		C 02 50.0	R 99 25.0	C 50 25.0	5050	5050
08-09-68 0710	446			220	96/130	F 99 49.3	D 60 29.1	D 03 21.5						24	3	12	9	C 02 37.5	M 02 37.5		5050	5050
EO B 748.4 228.2 SAN FRANCISCO BAY AT FORT POINT																						
10-05-67 0740	254			190	64	F 99 74.8	D 03 18.9	D 02 6.3						56	3	50	3	C 02 83.3	R 99 8.4	M 03 8.4	5050	5050
08-09-68 0750	1440		64	290	220/866	D 60 53.5	F 99 20.1	D 03 15.3	G 02 4.4	D 66 4.4	D 70 2.2			45	20	22	3	R 99 44.4	C 02 35.6		5050	5050
EO B 749.2 222.4 SAN FRANCISCO BAY AT TREASURE ISLAND																						
10-05-67 0615	452			260	160/32	F 99 57.5	D 03 14.1	D 04 14.1	D 01 7.2	D 66 7.2				48	19	29		C 02 60.4	R 99 39.6		5050	5050
08-08-68 0650	480			160	192/128	F 99 33.3	D 03 33.3	D 72 20.0	D 07 6.7	D 70 6.7				7	7			R 99 100			5050	5050
EO B 757.7 225.6 SAN PABLO BAY AT POINT SAN PABLO																						
10-04-67 0805	350			190	96/64	F 99 54.3	D 03 27.4	D 65 9.1	D 66 9.1					152	20	132		C 02 78.9	R 99 13.2		5050	5050
08-09-68 0855	480			190	194/96	F 99 39.6	D 03 27.1	D 72 13.3	D 06 6.7	D 07 6.7	D 66 6.7			148	19	129		C 02 81.0	R 99 12.8	C 50 6.0	5050	5050
EO B 802.4 208.2 SUISUN BAY AT BENICIA																						
10-05-67 0955	4910			770	3750/390	D 03 34.6	D 02 15.7	F 99 15.7	D 04 13.0	D 72 10.4	D 66 5.3	D 05 2.6	D 61 2.6	437	390	47		R 99 89.2	C 02 10.8		5050	5050
08-08-68 0930	5728		190	1200	2456/1882	D 72 26.2	D 03 24.4	F 99 20.9	D 04 10.1	D 50 6.7	D 02 6.6	G 02 3.3	D 05 1.7	60	60			R 99 100			5050	5050
E3 1100.50 NAPA RIVER AT DUTTONS LANDING																						
10-04-67 0755	1250			830	290/130	F 99 43.2	F 01 23.2	D 03 23.2	D 70 10.4					31	6	25		C 06 80.6	R 99 19.4		5050	5050
08-08-68 0800	1724			350	380/994	D 99 53.9	D 03 22.0	F 99 20.3	D 72 3.7					45	32	13		R 99 71.1	C 06 28.9		5050	5050

The following are the codes and abbreviations used in this table.

PHYTOPLANKTON

Total - Total phytoplankton count per milliliter

Bl-Gr - Blue Green Algae

C/F - Coccoid over Filamentous (undifferentiated if dividing line not shown)

Green - Green Algae

Flag - Flagellates

Gr/O - Green over Other Pigmented (undifferentiated if dividing line not shown)

C/P - Centric over Pennate (undifferentiated if dividing line not shown)

Most Abundant Phytoplankton - Indicates specific genus code over its percentage of total

ZOOPLANKTON

Total - Total zooplankton count per milliliter

Crust - Crustacea

Misc - Miscellaneous zooplankton

Blue-Green Algae

B 99 Unidentified

Coccoid

B 00 Unidentified Coccoid
B 03 Anacystis
B 06 Dactylococcopsis

Filamentous

B 50 Unidentified Filamentous
B 51 Anabaena
B 52 Aphanizomenon
B 55 Oscillatoria

Green Algae

G 99 Unidentified

Coccoid

G 00 Unidentified Coccoid
G 02 Ankistrodesmus
G 05 Closterium
G 07 Crucigenia
G 08 Dictysphaerium
G 10 Lagerheimia
G 12 Oocystis
G 15 Scenedesmus
G 16 Staurastrum
G 18 Tetrastrum

Green Algae (Continued)

Coccoid (Continued)

G 19 Schroederia
G 20 Elakatothrix
G 21 Sphaerocystis
G 22 Selenastrum
G 23 Tetraedron
G 24 Hormidium

Filamentous

G 50 Unidentified Filamentous

Flagellates

F 99 Unidentified

Green

F 00 Unidentified Green
F 01 Dinoflagellates
F 03 Euglena
F 07 Phacus
F 08 Trachelomonas

Other Pigmented

F 50 Unidentified Other
F 52 Dinobryon
F 55 Ceratum
F 56 Cryptomonas

Diatoms

Centric

D 00 Unidentified Centric
D 01 Biddulphia
D 02 Coscinodiscus
D 03 Cyclotella
D 04 Melosira (salt water)
D 05 Melosira (fresh water)
D 06 Stephanodiscus
D 07 Rhizosolenia

Pennate

D 50 Unidentified Pennate
D 51 Achnanthes
D 52 Amphiprora
D 55 Asterionella
D 57 Cocconeis
D 60 Diatoma
D 61 Diploneis
D 62 Fragilaria
D 64 Gyrosigma
D 65 Navicula
D 66 Nitzschia
D 68 Rhoicosphenia
D 70 Synedra
D 71 Tabellaria
D 72 Skeletonema

Most Abundant Zooplankton

Rotifers

R 99 Unidentified Rotifers

Crustacea

C 99 Unidentified Crustacea

Cladocerans

C 01 Cladocera
C 02 Nauplii
C 06 Crab Zoea
C 07 Crab Larvae

Copecods

C 50 Unidentified

Miscellaneous

M 02 Annelid Worms
M 03 Fish Larvae
M 04 Pulvinulina

Appendix E

GROUND WATER QUALITY

INTRODUCTION

This appendix presents ground water quality data collected during the period from October 1, 1967, through September 30, 1968. The data were collected from a number of major ground water sources in the Central Coastal Area in cooperation with other state, local, and federal agencies. During the 1968 water year, 336 wells were sampled in 20 ground water basins and subbasins or subareas.

At the time of field sampling, pH and temperature measurements are normally made. Comments on current conditions are noted in field books which are available in the files of the Department of Water Resources.

Laboratory analyses of ground waters were performed in accordance with "Standard Methods for the Examination of Water and Waste Water", 12th Edition, American Public Health Association, New York, N. Y.

The Region and Basin and State Well Numbering Systems are described in Appendix C, "Ground Water Measurements", on page 35. The locations of the ground water basins and subbasins are shown on Figure C-1, pages 39, 40, and 41.

INDEX TO MONITORED AREAS
GROUND WATER BASINS
IN THE CENTRAL COASTAL AREA

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

An explanation of column headings follows:

The Lab and Sampler agency codes are as follows:

2400 - Santa Clara Valley Water Conservation District

5000 - U. S. Geological Survey

5050 - Department of Water Resources

5100 - Alameda County Flood Control and Water Conservation District

5112 - Sonoma County

5401 - Alameda County Water District

Time - Pacific Standard Time on a 24-hour clock.

Temp. - Water temperature in degrees Fahrenheit at the time of field sampling.

pH - Measurement of acidity or alkalinity of water.

EC - The electrical conductance in micromhos at 25° Celsius.

TDS - Gravimetric determination of total dissolved solids at 180° Celsius.

SUM - Total dissolved solids determined by addition of analyzed constituents.

TH - Total hardness.

NCH - Noncarbonate hardness.

The Mineral Constituents are as follows:

B	Boron	K	Potassium
Ca	Calcium	Mg	Magnesium
Cl	Chloride	Na	Sodium
CO_3	Carbonate	NO_3	Nitrate
F	Fluoride	SiO_2	Silica
HCO_3	Bicarbonate	SO_4	Sulfate

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time / Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	F	B	SiO_2	TDS SUM	TH NCH
NORTH COASTAL REGION 1.00.00																	
UKIAH VALLEY 1-15.00																	
14N/12W-05K01 M 7-11-68 5050 1130 5050			512											0.7			
14N/12W-11N01 M 7-11-68 5050 1030 5050		8.3	409	28 1.40 34	26 2.14 53	12 0.52 13		0	174 2.85		9.4 0.26			0.2			177 34
14N/12W-26K01 M 7-11-68 5050 1300 5050	62		428											1.2			
15N/12W-35D01 M 7-10-68 5050 1730 5050	75		385											0.1			
16N/12W-05D01 M 7-10-68 5050 1445 5050		8.5	386	26 1.30 34	19 1.54 40	23 1.00 26		5 0.17	171 2.80		26 0.73			0.0			142 0
16N/12W-05D02 M 7-10-68 5050 1500 5050	62		295								15 0.42			0.0			
16N/12W-09Q01 M 7-10-68 5050 1200 5050			396											0.0			
17N/12W-28M01 M 7-10-68 5050 1300 5050	61	7.9	192	14 0.70 36	9 0.74 39	11 0.48 25		0	72 1.18		5.5 0.16			0.0			72 13
SANEL VALLEY 1-16.00																	
12N/11W-02F01 M 7-11-68 5050 1630 5050	63		383											0.2			
13N/11W-07D01 M 7-11-68 5050 1330 5050	59	8.4	287	20 1.00 33	19 1.60 53	10 0.44 14		2 0.07	158 2.59		5.2 0.15			0.2			130 0
13N/11W-18D01 M 7-11-68 5050 1415 5050	60		418											1.1			
13N/11W-18E01 M 7-11-68 5050 1400 5050	61		404									6.8 0.11		1.5			
13N/11W-19N01 M 7-11-68 5050 1530 5050	62		305											0.1			
13N/11W-30H01 M 7-11-68 5050 1600 5050		8.3	393	30 1.50 38	24 1.94 50	11 0.48 12		0	182 2.98		8.2 0.23			0.1			172 23
ALEXANDER VALLEY 1-17.00																	
09N/08W-07Q01 M 7-12-68 5050 1215 5050	75		603			133 5.78							0.9 0.05	0.4			
09N/09W-01P01 M 7-12-68 5050 1145 5050	59	8.5	403	33 1.65 38	28 2.33 53	9.4 0.41 9		6 0.20	204 3.34		5 0.14			0.0			199 23
10N/09W-26L01 M 7-12-68 5050 1100 5050	63	8.3	625	33 1.65 25	55 4.56 67	13 0.56 8		0	320 5.24		8.6 0.24			0.0			311 49
11N/10W-28N01 M 7-12-68 5050 0845 5050			404											0.4			
11N/10W-33G01 M 7-12-68 5050 0945 5050		7.8	199	12 0.60 32	6.3 0.52 28	17 0.74 40		0	61 1.00		18 0.51			0.1			56 6
SANTA ROSA VALLEY 1-18.00																	
05N/09W-03F01 M 7-30-68 5050 1415 5050	75		527			96 4.18								0.5			

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time / Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter; Milliequivalents per Liter; Percent Reactance Value — Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter — F	B	SiO_2	TDS SUM	TH NCH
SANTA ROSA VALLEY 1-18.00																	
06N/07W-17E02 M 7-31-68 5050 1430 5050			658										0.4 0.02	0.2			
06N/07W-18R01 M 7-30-68 5050 1500 5050			777									32 0.52					
06N/08W-03B01 M 7-31-68 5050 1100 5050	64		516									37 0.60					
07N/06W-29P01 M 7-30-68 5050 1615 5050			215			13 0.56											
07N/07W-15C01 M 7-29-68 5050 1730 5050		8.1	261	13 0.65 24	12 0.99 37	24 1.04 39		0	143 2.34		5.8 0.16			0.0			82 0
07N/07W-29D01 M 7-31-68 5050 1345 5050		8.3	535	33 1.65 31	20 1.63 31	47 2.04 38		0	293 4.80		21 0.59			0.4			164 0
07N/08W-03L01 M 7-30-68 5050 0900 5050			519			61 2.65											
07N/08W-05G01 M 7-30-68 5050 0945 5050		8.3	504	26 1.30 29	24 1.96 43	30 1.30 28		0	153 2.51		49 1.38			0.0			163 38
07N/08W-18Q01 M 7-31-68 5050 0900 5050	64		714			65 2.83								0.1			
07N/08W-30P01 M 7-31-68 5050 0945 5050	65	7.5	1080	60 2.99 30	55 4.50 45	58 2.52 25		0	214 3.51		141 3.98			0.0			375 200
07N/09W-09F01 M 7-30-68 5050 1300 5050	64	8.0	153	8.4 0.42 30	4.4 0.36 25	15 0.65 45		0	61 1.00		12 0.34			0.0			39 0
07N/09W-36M01 M 7-31-68 5050 1030 5050			359			35 1.52								0.0			
08N/08W-20Q01 M 7-31-68 5050 1200 5050		8.1	483	20 1.00 22	20 1.68 36	45 1.96 42		0	211 3.46		35 0.99			0.1			134 0
09N/10W-01C01 M 7-30-68 5050 1145 5050	67	8.1	212	13 0.65 29	10 0.83 37	18 0.78 34		0	117 1.92		6.7 0.19			0.1			74 0
ANDERSON VALLEY 1-19.00																	
13N/14W-02L02 M 9-17-68 5050 0950 5050		7.5 6.3	222	18 0.90 40	8.0 0.66 30	15 0.65 29	0.6 0.02 1	0.0	108 1.77 78	6.1 0.13 6	9.8 0.28 12	4.9 0.08 4	0.2	0.0	97 116	78 0	
13N/14W-11A01 M 9-17-68 5050 1120 5050		7.8	256	25 1.25 47	8.1 0.67 25	16 0.70 27	0.7 0.02 1	0.0	134 2.20 81	3.0 0.06 2	8.8 0.25 9	12 0.19 7	0.2	0.0	124 139	96 0	
14N/14W-18R02 M 9-17-68 5050 1400 5050	73	7.5 6.0	144 147	7.7 0.38 28	3.2 0.26 19	16 0.70 52	0.5 0.01 1	0.0	48 0.79 58	2.1 0.04 3	16 0.45 33	5.2 0.08 6	0.1	0.0	94 74	32 0	
14N/14W-19B01 M 9-17-68 5050 1310 5050		7.7	209	13 0.65 31	9.1 0.75 35	16 0.70 33	1.0 0.03 1	0.0	84 1.38 68	4.6 0.10 5	20 0.56 27	0.1	0.2	0.2	140 105	70 1	
14N/14W-34G06 M 9-17-68 5050 1150 5050		8.1	580	25 1.25 21	16 1.32 22	80 3.48 57	0.8 0.02	0.0	270 4.43 76	0.0	49 1.38 24	0.0	1.4	4.0	235 309	127 0	
POINT ARENA 1-20.00																	
12N/16W-18K01 M 9-10-68 5050 1545 5050		7.2	413	6.7 0.33 10	15 1.23 36	40 1.74 51	3.9 0.10 3	0.0	22 0.36 10	18 0.37 11	55 1.55 44	76 1.22 35		0.0	269 225	79 61	
12N/17W-12L01 M 9-11-68 5050 1700 5050		7.1	117	1.6 0.08 7	3.2 0.26 23	18 0.78 68	1.0 0.03 3	0.0	20 0.33 31	4.0 0.08 7	20 0.56 52	6.1 0.10 9		0.1	60 64	17 1	

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter; Milliequivalents per Liter; Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	F	B	SiO_2	TDS SUM	TH NCH
POINT ARENA 1-20.00																		
12N/17W-13L01 M			8.0	350	27	11	23	1.4	0.0	114	28	28	4.7		0.0		184	112
9-11-68	5050				1.35	0.90	1.00	0.04		1.87	0.58	0.79	0.08				179	19
1615	5050				41	27	30	1		56	17	24	2					
13N/16W-31M01 M			8.1	488	33	7.9	48	2.5	0.0	102	16	81	8.8		0.1		268	115
9-12-68	5050				1.65	0.65	2.09	0.06		1.67	0.33	2.28	0.14				247	32
1030	5050				37	15	47	1		38	7	52	3					
13N/17W-24D01 M			7.3	230	7.9	3.0	30	1.4	0.0	24	5.6	43	17		0.0		132	32
9-12-68	5050				0.39	0.25	1.31	0.04		0.39	0.12	1.21	0.27				120	13
0830	5050				20	13	66	2		20	6	61	14					
13N/17W-25H01 M			7.8	450	46	5.6	33	1.4	0.0	164	23	38	5.0		0.0		255	138
9-12-68	5050				2.30	0.46	1.44	0.04		2.69	0.48	1.07	0.08				232	4
0700	5050				54	11	34	1		62	11	25	2					
FORT BRAGG TERRACE 1-21.00																		
16N/17W-30M01 M			7.7	373	12	11	34	5.2	0.0	53	31	46	16		0.1		214	77
9-11-68	5050				0.60	0.90	1.48	0.13		0.87	0.64	1.30	0.26				181	34
0830	5050				19	29	48	4		28	21	42	8					
17N/17W-19P01 M			7.9	502	26	12	50	1.4	0.0	76	80	61	0.0		0.1		275	116
9-11-68	5050				1.30	0.99	2.18	0.04		1.25	1.66	1.72					268	54
1110	5050				29	22	48	1		27	36	37						
17N/17W-30F01 M			7.5	623	26	16	58	2.0	0.0	33	10	140	41		0.0		416	131
9-11-68	5050				1.30	1.32	2.52	0.05		0.54	0.21	3.95	0.66				309	104
1030	5050				25	25	49	1		10	4	74	12					
18N/17W-07K01 M			7.3	175	3.8	3.0	24	0.8	0.0	19	15	29	5.8		0.1		102	22
9-10-68	5050				0.19	0.25	1.04	0.02		0.31	0.31	0.82	0.09				91	7
1030	5050				13	17	69	1		20	20	54	6					
18N/17W-19D01 M			7.1	274	7.2	4.9	36	1.4	0.0	13	4.9	54	30		0.0		168	38
9-10-68	5050				0.36	0.40	1.57	0.04		0.21	0.10	1.52	0.48				145	28
1800	5050				15	17	66	2		9	4	66	21					
19N/17W-20N01 M			7.8	200	8.4	4.1	24	1.4	0.0	46	3.8	35	0.0		0.1		101	38
9-10-68	5050				0.42	0.34	1.04	0.04		0.75	0.08	0.99					99	1
1545	5050				23	18	57	2		41	4	54						
19N/17W-30G01 M			7.2	340	8.3	6.2	42	0.8	0.0	26	12	72	7.5		0.1		174	46
9-10-68	5050		5.8	340	0.41	0.51	1.83	0.02		0.43	0.25	2.03	0.12				162	25
1340	5050				15	18	66	1		15	9	72	4					
19N/17W-30Q01 M			8.2	411	8.6	6.9	64	5.8	0.0	140	7.4	51	0.0		0.3		219	50
9-10-68	5050				0.43	0.57	2.78	0.15		2.30	0.15	1.44					213	0
1200	5050				11	15	71	4		59	4	37						
SAN FRANCISCO BAY REGION 2-00.00																		
PETALUMA VALLEY 2-01.00																		
03N/06W-01Q01 M		66		1360			223					146						
7-19-68	5050						9.70					4.12						
0830	5112																	
03N/06W-03C01 M		74		4220			358					1080			0.3			
7-19-68	5050						15.57					30.47						
0915	5112																	
03N/06W-11B01 M		76		1900			316					324						
7-19-68	5050						13.75					9.14						
0842	5112																	
03N/06W-15M01 M		64		363								24						
7-29-68	5050											0.68						
1100	5050																	
03N/06W-16H80 M		70		174								21						
7-29-68	5050											0.59						
1115	5050																	
03N/06W-18M01 M			7.9	635	49	31	29		0	184		45			0.0			251
7-29-69	5050				2.44	2.57	1.26			3.02		1.27						100
1300	5050				39	41	20											
03N/07W-14F01 M				620								68						
7-29-68	5050											1.92						
1245	5050																	

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time / Lab / Sampler	Temp.	pH Lab	pH Field	EC Lab	EC Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
PETALUMA VALLEY 2-01.00																			
04N/06W-07H01 M 7-19-68 5050 0950 5112	70		8.6	1090		62 3.09 26	68 5.62 46	80 3.48 28		22 0.73	525 8.60		53 1.50			2.0			436 0
04N/06W-21Q01 M 7-19-68 5050 0935 5112	78			1010				196 8.53					116 3.27			0.9			
04N/06W-33R01 M 7-19-68 5050 0905 5112	65		8.1	6120		274 13.67 23	312 25.69 43	468 20.36 34		0	527 8.64		1810 51.06			0.2			1970 1538
05N/06W-30D01 M 7-19-68 5050 1015 5112				891									78 2.20			0.5			
05N/07W-20L03 M 7-19-68 5050 1440 5112	70		7.7	1350		136 6.79 51	25 2.06 16	100 4.35 33		0	234 3.84		225 6.35			0.0			443 251
05N/07W-26E01 M 7-19-68 5050 1315 5112	67			761				60 2.61											
05N/07W-34E02 M 7-19-68 5050 1337 5112	69		8.9	908		4 0.20 2	4.6 0.38 5	188 8.18 93		22 0.73	368 6.03		68 1.92			0.2			29 0
NAPA-SONOMA VALLEY 2-02.00 NAPA VALLEY 2-02.01																			
03N/03W-18G01 M 7-25-68 5050 1515 5050				1120				91 3.96					158 4.46	18 0.29		0.1			
03N/03W-18G02 M 7-25-68 5050 1530 5050			8.6	1310		76 3.79 29	59 4.82 36	108 4.70 35		8 0.27	361 5.92		147 4.15	60 0.97		0.0			431 122
04N/04W-02L01 M 7-25-68 5050 1200 5050	63			814									111 3.13			0.1			
04N/04W-05C01 M 7-24-68 5050 1030 5050			7.8	295		8.2 0.41 15	5.5 0.45 17	42 1.83 68		0	87 1.42		27 0.76	23 0.37		0.0			43 0
04N/04W-05D02 M 7-24-68 5050 0930 5050				774									105 2.96						
04N/04W-12M01 M 7-25-68 5050 1245 5050				848									133 3.75						
04N/04W-13E01 M 7-25-68 5050 1345 5050			8.1	3670		312 15.57 42	88 7.21 20	326 14.18 38		0	263 4.31		656 18.50	255 4.11		0.1			1140 924
04N/04W-14C02 M 7-25-68 5050 1420 5050				1520									340 9.59						
05N/04W-09Q02 M 7-24-68 5050 1300 5050	64			507									46 1.30						
05N/04W-11F03M 7-25-68 5050 1000 5050				688									116 3.27						
05N/04W-14C01 M 7-25-68 5050 1030 5050			7.9	255		14 0.70 29	11 0.92 37	19 0.83 34		0	107 1.75		19 0.54			0.0			81 0
05N/04W-15E01 M 7-24-68 5050 1330 5050	64			404									32 0.90			0.1			
05N/04W-20R02 M 7-24-68 5050 1100 5050				1690									391 11.03						
05N/04W-21P02 M 7-24-68 5050 1130 5050			8.4	2340		34 1.70 7	12 1.00 5	435 18.92 88		4 0.13	418 6.85		450 12.69			0.4			135 0
05N/04W-22M01 M 7-24-68 5050 1345 5050				635									45 1.27						

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time / Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
NAPA VALLEY 2-02.01																	
05N/04W-29H01 M 7-24-68 5050 1200 5050	65		391								31 0.87			0.0			
06N/04W-06P01 M 7-24-68 5050 1445 5050			383								18 0.51			0.0			
06N/04W-15Q01 M 7-25-68 5050 0900 5050	67	8.0	267	11 0.55 21	5.7 0.47 18	36 1.57 61		0	132 2.16		8.2 0.23	7.0 0.11		0.1			51 0
09N/07W-25N01 M 7-24-68 5050 1600 5050	85	8.1	991	11 0.55 7	5.0 0.41 5	171 7.44 88		0	184 3.02		188 5.30			8.3			48 0
SONOMA VALLEY 2-02.02																	
04N/05W-14D02 M 7-23-68 5050 1405 5112	76	8.3	1010	11 0.55 6	9.4 0.77 8	187 8.13 86		0	306 5.02		128 3.61			0.1			66 0
04N/05W-28P01 M 7-23-68 5050 1453 5112	68		2960								634 17.88	15 0.24		2.5			
05N/05W-18D02 M 7-23-68 5050 1010 5112	65	8.1	568	32 1.60 30	22 1.82 33	46 2.00 37		0	186 3.05		39 1.10			0.2			171 19
05N/05W-20R01 M 7-23-68 5050 1025 5112	74		858			189 8.22					49 1.38			4.3			
05N/06W-12F01 M 7-23-68 5050 1000 5112	64		438								30 0.85			0.7			
05N/06W-25P02 M 7-23-68 5050 1100 5112	72		587								14 0.39			1.3			
06N/06W-23M02 M 7-23-68 5050 0920 5112	71	8.2	527	17 0.85 19	7.7 0.63 14	70 3.04 67		0	145 2.38		81 2.28			1.2			74 0
06N/06W-26E01 M 7-23-68 5050 0935 5112	72		443								56 1.58	1.2 0.06		1.9			
SUISUN-FAIRFIELD 2-03.00																	
03N/01E-04B01 M 7-23-68 5050 1415 5050			1510								273 7.70			0.6			
03N/01E-21D01 M 7-23-68 5050 1500 5050			1820								203 5.72			7.2			
03N/01E-22F02 M 7-23-68 5050 1530 5050		8.4	1770	30 1.50 9	24 1.98 12	308 13.40 79		11 0.37	497 8.14		234 6.60			4.2			174 0
04N/01W-33A01 M 7-23-68 5050 1230 5050			3580								919 25.92			14.0			
04N/01E-08F01 M 7-23-68 5050 1400 5050	70	8.2	1030	45 2.24 22	28 2.30 23	126 5.48 55		0	244 4.00		152 4.29			0.9			227 27
04N/02W-04D01 M 7-18-68 5050 1800 5050	64		1290								71 2.00			1.2			
04N/02W-05Q02 M 7-18-68 5050 1830 5050			950								111 3.13			0.5			
04N/02W-09H01 M 7-18-68 5050 1845 5050			3460								1020 28.76			4.9			
04N/02W-18M01 M 7-23-68 5050 1100 5050			1140								121 3.41			0.6			

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time / Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value									Milligrams per Liter				
				Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	F	B	SiO_2	TDS SUM	TH NCH
SUISUN-FAIRFIELD 2-03.00																	
04N/03W-13G02 M		7.9	470	40	17	29		0	177		15			0.3			169
7-23-68 5050				2.00	1.38	1.26			2.90		0.42						24
1030 5050				43	30	27											
05N/01W-25R01 M		8.0	1620	103	31	167		0	256		362			0.8			
7-23-68 5050				5.14	2.59	7.26			4.20		10.21						
1345 5050				34	18	48											
05N/01W-28P01 M		8.4	947	75	27	77		5	300		121			0.3			298
7-23-68 5050				3.74	2.21	3.35		0.17	4.92		3.41						44
1315 5050				40	24	36											
05N/02W-21P03 M	64		973								69			1.1			
7-23-68 5050											1.95						
0915 5050																	
05N/02W-34N01 M			1530								122			1.8			
7-18-68 5050											3.44						
1730 5050																	
05N/02W-34P04 M			1190								40			1.0			
7-18-68 5050											1.13						
1745 5050																	
PITTSBURG PLAIN 2-04.00																	
02N/01E-07R02 M			8000								2790						
7-31-68 5050											78.68						
1130 5050																	
CLAYTON VALLEY 2-05.00																	
01N/01W-04A01 M		8.4	767	68	40	34		4	327		27			0.4			333
7-31-68 5050				3.39	3.26	1.48		0.13	5.36		0.76						57
1300 5050				42	40	18											
02N/01W-30J01 M		8.2	1180	91	66	67		0	462		68			0.4			497
8-01-68 5050				4.54	5.39	2.91			7.57		1.92						118
1440 5050				35	42	23											
02N/01W-30K01 M			1290								101			1.2			
8-01-68 5050											2.85						
1400 5050																	
02N/01W-31D01 M			1060								131	44					
8-01-68 5050											3.69	0.71					
1300 5050																	
02N/02W-13P01 M		8.2	1010	40	34	113		0	252		143			0.2			241
8-01-68 5050				2.00	2.82	4.92			4.13		4.03						34
1515 5050				21	29	50											
02N/02W-26B01 M			945								152			1.0			
8-02-68 5050											4.29						
0900 5050																	
02N/02W-36J01 M			1200								140	38					
8-01-68 5050											3.95	0.61					
1100 5050																	
YGNACIO VALLEY 2-06.00																	
01N/01W-07K01 M		8.4	2250	111	69	296		6	426		178			0.8			562
7-31-68 5050				5.54	5.69	12.88		0.20	6.98		5.02						204
1359 5050				23	24	53											
01N/01W-29G01 M		8.3	2210	128	72	247		0	538		31			0.9			618
7-31-68 5050				6.39	5.96	10.74			8.82		0.87						177
1630 5050				28	26	46											
01N/02W-11N01 M		8.6	1220	80	31	133		22	450		131			1.2			329
7-31-68 5050				3.99	2.58	5.78		0.70	7.31		3.70						0
1540 5050				32	21	47											
01N/02W-13P01 M			1230								111	34		1.1			
7-31-68 5050											3.13	0.55					
1400 5050																	
02N/02W-36E01 M			2860							380	415	175		14			
8-01-68 5050										7.91	11.70	2.82					
1030 5050																	

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time / Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
SANTA CLARA VALLEY 2-09.00																	
EAST BAY AREA 2-09.01																	
01S-04W-04A01 M		7.4	1600	110	67	120		0	387		266			0.1			552
7-22-68 5050				5.49	5.54	5.22			6.34		7.50						235
5100				34	34	32											
02S/03W-28G01 M		7.7	940	67	25	88		0	266		132			0.3			272
7-22-68 5050				3.34	2.09	3.83			4.36		3.72						54
5100				36	23	41			3.72								
02S/03W-30D02 M		7.7	3380	255	115	257		0	230		869			0.3			1110
7-22-68 5050				12.72	9.46	11.18			3.77		24.51						921
5100				38	28	34											
02S/03W-33H03 M		7.8	661	37	19	77		0	323		29			0.4			169
7-25-68 5050				1.85	1.53	3.35			5.29		0.82						0
0915 5100				27	23	50											
02S/03W-34A02 M		8.0	793	67	36	42		0	297		38			0.3			314
7-25-68 5050				3.34	2.93	1.83			4.87		1.07						70
5100				41	37	22											
02S/04W-12R01 M		7.7	446	27	14	40		0	89		48			0.1			127
7-29-68 5050				1.35	1.19	1.74			1.46		1.35						54
1500 5100				31	28	41											
02S/04W-25A01 M		8.2	860	47	14	119		0	303		99			0.4			174
7-24-68 5050				2.34	1.14	5.18			4.97		2.79						0
5100				27	13	60											
03S/02W-07J01 M		7.5	1110	98	41	73		0	390		81			0.4			412
7-29-68 5050				4.89	3.34	3.18			6.39		2.28						92
1000 5100				43	29	28											
03S/02W-19R04 M		8.2	1200	127	38	74		0	413		145			0.2			474
7-24-68 5050				6.34	3.13	3.22			6.77		4.09						135
5100				50	25	25											
03S/02W-30R14 M		7.7	1290	124	43	88		0	457		135			0.4			486
7-29-68 5050				6.19	3.52	3.83			7.49		3.81						111
1030 5100				46	26	28											
03S/02W-32D02 M		7.9	831	37	9.4	126		0	279		91			0.5			131
7-24-68 5050				1.85	0.77	5.48			4.57		2.57						0
5100				23	9	68											
03S/03W-01G03 M		8.2	1020	47	21	145		0	370		116			0.6			203
7-24-68 5050				2.34	1.72	6.31			6.06		3.27						0
5100				23	16	61											
03S/03W-13B02 M		8.5	1840	113	68	204		7	695		142			1.2			562
7-24-68 5050				5.64	5.59	8.87		0.23	11.39		4.00						0
5100				28	28	44											
03W-03W-24Q02 M		8.0	2920	194	117	252		0	516		562			0.6			968
7-29-68 5050				9.68	9.66	10.96			8.46		15.85						545
1045 5100				32	32	36											
04S/01W-07P02 M			778								76						
7-11-68 5050											2.14						
5401																	
04S/01W-07R01 M			1110								111	100					
7-11-68 5050											3.13	1.61					
5401																	
04S/01W-07R05 M			814								91	40					
7-11-68 5050											2.57	0.64					
5401																	
04S/01W-17E02 M		8.1	2210	187	97	90		0	275		495			0.3			867
7-17-68 5050				9.33	7.99	3.92			4.51		13.96						641
5401				44	38	18											
04S/01W-18C02 M		8.3	1130	104	45	63		0	364		100			0.2			445
7-17-68 5050				5.19	3.70	2.74			5.96		2.82						147
5401				44	32	24											
04S/01W-18G01 M			1700								289						
7-11-68 5050											8.15						
5401																	
04S/01W-18H03 M			1440								324						
7-16-68 5050											9.14						
5401																	
04S/01W-18M07 M		8.0	2540	53	198	104		0	260		606			0.3			946
7-16-68 5050				2.64	16.26	4.52			4.26		17.10						733
5401				11	70	19											

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time / Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
EAST BAY AREA 2-09.01																	
04S/01W-20D02 M 7-17-68 5050 5401			812								121 3.41						
04S/01W-20E01 M 7-16-68 5050 5401			696								91 2.57						
04S/01W-20R02 M 7-22-68 5050 0900 5401		8.5	649	46 2.30 37	22 1.82 29	49 2.13 34		6 0.20	151 2.47		72 2.03			0.0			206 72
04S/01W-21F02 M 7-16-68 5050 5401		8.6	698	50 2.50 38	19 1.56 24	58 2.52 38		9 0.30	184 3.02		61 1.72			0.0			203 37
04S/01W-21K03 M 7-11-68 5050 5401			533								38 1.07						
04S/01W-21P06 M 7-16-68 5050 5401		8.4	627	44 2.20 36	26 2.12 34	43 1.87 30		4 0.13	214 3.51		39 1.10			0.6			216 33
04S/01W-21R02 M 7-16-68 5050 5401		8.5	670	58 2.89 44	22 1.77 27	44 1.91 29		6 0.20	216 3.54		46 1.30			0.6			233 45
04S/01W-21R04 M 7-17-68 5050 5401			516								34 0.96						
04S/01W-22M02 M 7-00-68 5050 5401		8.4	877	34 1.70 20	16 1.32 15	127 5.52 65		3 0.10	330 5.51		71 2.00			1.6			151 0
04S/01W-28B02 M 7-11-68 5050 5401		8.5	877	72 3.59 39	34 2.80 31	63 2.74 30		7 0.23	323 5.29		57 1.61			0.8			320 43
04S/01W-28C01 M 7-16-68 5050 5401			738								86 2.42						
04S/01W-28C14 M 7-16-68 5050 5401		8.3	670	58 2.89 46	19 1.53 24	44 1.91 30		0	254 4.16		43 1.21			0.4			221 13
04S/01W-28D04 M 7-11-68 5050 5401		8.5	788	73 3.64 46	28 2.35 29	45 1.96 25		13 0.43	243 3.98		77 2.17			0.5			300 80
04S/01W-28D09 M 7-16-68 5050 5401			698								79 2.23						
04S/01W-28F05 M 7-00-68 5050 5401		8.4	566	35 1.75 32	20 1.65 30	47 2.04 38		1 0.03	206 3.38		32 0.90			0.4			170 0
04S/01W-28L01 M 7-00-68 5050 5401			1740								346 9.76	54 0.87					
04S/01W-28R01 M 7-23-68 5050 5401		8.2	1720	119 5.94 31	92 7.57 39	131 5.70 30		0	494 8.10		152 4.29			0.6			676 271
04S/01W-29F03 M 7-22-68 5050 1500 5401		8.5	828	61 3.04 45	16 1.30 19	57 2.48 36		7 0.23	217 3.56		96 2.71			0.0			217 28
04S/01W-29J08 M 7-11-68 5050 5401		7.9	4260	331 16.52 40	190 15.65 38	205 8.92 22		0	245 4.02		1230 34.70			0.6			1610 1410
04S/01W-29L12 M 7-00-68 5050 5401		7.9	2570	237 11.83 52	92 7.61 34	75 3.26 14		0	159 2.61		720 20.31			0.3			973 843
04S/01W-30E03 M 7-18-68 5050 5401		8.1	1690	150 7.48 47	51 4.19 26	99 4.31 27		0	170 2.79		399 11.26			0.4			584 445
04S/01W-30N03 M 7-11-68 5050 5401			1860								465 13.11						
04S/01W-31A02 M 7-11-68 5050 0700 5401			2980								858 24.20						

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
EAST BAY AREA 2-09.01																		
04S/01W-31B03 M			8.1	2180	195	76	96		0	173		549			0.4			798
7-18-68	5050				9.73	6.21	4.18			2.84		15.49						656
	5401				48	31	21											
04S/01W-33A01 M			8.4	1000	62	44	76		5	286		91			0.6			337
7-11-68	5050				3.09	3.64	3.31		0.17	4.69		2.57						94
	5401				31	36	33											
04S/01W-33C01 M				1560								222						
7-22-68	5050											6.26						
	5401																	
04S/01W-33E01 M				4300								1420						
7-22-68	5050											40.04						
	5401																	
04S/01W-34Q04 M			8.3	1190	114	41	87		0	462		117			0.2			455
7-22-68	5050				5.69	3.40	3.78			7.57		3.30						76
	5401				44	27	29											
04S/01W-34R02 M			8.3	732	56	20	77		0	374		39			0.0			223
7-16-68	5050				2.79	1.67	3.35			6.13		1.10						0
	5401				36	21	43											
04S/01W-35P03 M			8.5	775	42	20	104		6	367		44			0.0			187
7-16-68	5050				2.10	1.64	4.52		0.20	6.02		1.24						0
	5401				25	20	55											
04S/02W-03R01 M			8.5	623	37	14	83		13	276		20			0.0			150
7-22-68	5050				1.85	1.15	3.61		0.43	4.52		0.56						0
1100	5401				28	17	55											
04S/02W-10C01 M			8.5	662	65	20	48		7	264		38			0.0			243
7-22-68	5050				3.24	1.62	2.09		0.23	4.33		1.07						15
1105	5401				47	23	30											
04S/02W-10M02 M				646								56						
7-16-68	5050											1.58						
	5401																	
04S/02W-10N06 M			8.1	1810	46	85	167		0	152		430			0.0			465
7-17-68	5050				2.30	6.99	7.26			2.49		12.13						340
	5401				14	42	44											
04S/02W-10Q02 M			8.2	2840	228	119	167		0	430		493			0.0			1060
7-22-68	5050				11.38	9.80	7.26			7.05		13.91						707
	5401				40	34	26											
04S/02W-11A02 M				956								66	46					
7-16-68	5050											1.86	0.74					
	5401																	
04S/02W-11G01 M				1810								188	505					
7-22-68	5050											5.30	8.13					
1040	5401																	
04S/02W-11Q10 M			8.5	759	72	28	42		7	256		48			0.0			294
7-22-68	5050				3.59	2.28	1.83		0.23	4.20		1.35						73
1030	5401				46	30	24											
04S/02W-11R12 M				1640								152	344					
7-22-68	5050											4.29	5.54					
1430	5401																	
04S/02W-12C01 M				630								57						
7-16-68	5050											1.61						
	5401																	
04S/02W-12N04 M				924								73	61					
7-22-68	5050											2.06	0.98					
1440	5401																	
04S/02W-12P02 M				874								69	52					
7-22-68	5050											1.95	0.84					
1450	5401																	
04S/02W-13C02 M				1510								224						
7-16-68	5050											6.32						
	5401																	
04S/02W-13E01 M				1180								213						
7-22-68	5050											6.01						
1140	5401																	
04S/02W-14E01 M			8.0	3070	56	270	134		0	398		620			0.0			1250
7-22-68	5050				2.79	22.19	5.83			6.52		17.49						924
1400	5401				9	72	19											

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter; Milliequivalents per Liter; Percent Reactance Value — Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter — F	B	SiO_2	TDS SUM	TH NCH
EAST BAY AREA 2-09.01																		
04S/02W-14J01 M			8.2	1440	147	50	54		0	247		269			0.0			573
7-22-68	5050				7.34	4.11	2.35			4.05		7.59						371
	5401				53	30	17											
04S/02W-15C01 M			8.5	683	69	20	42		13	252		38			0.0			255
7-22-68	5050				3.44	1.65	1.83		0.43	4.13		1.07						27
	5401				50	24	26											
04S/02W-15L04 M			8.5	1180	126	38	47		12	255		185			0.0			470
7-22-68	5050				6.29	3.10	2.04		0.40	4.18		5.22						241
1120	5401				55	27	18											
04S/02W-22P02 M			8.7	597	30	7	91		14	229		29			0.0			104
7-22-68	5050				1.50	0.58	3.96		0.47	3.75		0.82						0
	5401				25	9	66											
04S/02W-23F02 M			8.2	1310	128	50	49		0	238		226			0.0			528
7-22-68	5050				6.39	4.16	2.13			3.90		6.38						333
	5401				50	33	17											
04S/02W-24D04 M			8.5	683	72	22	36		11	253		39			0.0			269
7-22-68	5050				3.59	1.78	1.57		0.37	4.15		1.10						43
	5401				52	25	23											
04S/02W-24F06 M			7.8	5990	516	282	163		0	267		1730			0.0			2450
7-23-68	5050				25.75	23.20	7.09			4.38		48.80						2230
	5401				46	41	13											
04S/02W-24L06 M			8.5	1030	107	30	42		5	230		160			0.0			392
7-22-68	5050				5.34	2.49	1.83		0.17	3.77		4.51						195
	5401				55	26	19											
04S/02W-26A01 M			8.1	2750	263	83	119		0	189		706			0.0			1000
7-23-68	5050				13.12	6.86	5.18			3.10		19.92						845
	5401				53	27	20											
04S/02W-27L01 M				610								38						
7-16-68	5050											1.07						
	5401																	
04S/02W-35F01 M				824								93						
7-22-68	5050											2.62						
	5401																	
05W/01W-04D01 M				586								25						
7-16-68	5050											0.71						
	5401																	
05S/01W-06H01 M				4200								1310	7					
7-22-68	5050											36.94	0.11					
0915	5401																	
05S/01W-08A03 M			8.7	690	26	8	119		16	321		16			0.1			98
7-22-68	5050				1.30	0.66	5.18		0.53	5.26		0.45						0
	5401				18	10	72											
05S/01W-09J01 M				3890								1040						
7-22-68	5050											29.33						
	5401																	
05S/01W-09K01 M			8.0	1170	96	32	95		0	361		172			0.3			370
7-22-68	5050				4.79	2.60	4.13			5.92		4.85						74
	5401				41	23	36											
05S/01W-09M01 M			7.9	2640	220	79	161		0	270		727			0.2			874
7-22-68	5050				10.98	6.48	7.00			4.42		20.51						653
	5401				45	26	29											
05S/01W-15C01 M				717								50						
7-22-68	5050											1.41						
	5401																	
05S/01W-17A01 M				527								14						
7-00-68	5050											0.39						
	5401																	
05S/02W-01N01 M			8.4	465	6.4	1.2	95		2	216		14			0.1			21
7-22-68	5050				0.32	0.10	4.13		0.07	3.54		0.39						0
0900	5401				7	2	91											
SOUTH BAY AREA 2-09.02																		
05S/01E-31R01 M				790								51						
10-18-67	5050											1.44						
1520	2400																	
05S/01E-31R01 M				938								71						
9-23-68	5050											2.00						
1210	2400																	

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab	pH Field	EC Lab	EC Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
SOUTH BAY AREA 2-09.02																				
06S/01E-21B03 M					808									21			0.0			
9-27-68	5050													0.59						
1110	2400																			
06S/01E-22P01 M					439									65			1.2			
9-03-68	5050													1.83						
1020	2400																			
06S/01E-27C02 M				8.2	790		53	23	90		0	294		64			1.3			228
9-03-68	5050						2.64	1.92	3.92			4.82		1.80						0
0930	2400						31	23	46											
06S/01E-28A04 M				8.6	821		24	7.3	148		10	259		84			0.6			90
9-03-68	5050						1.20	0.60	6.44		0.33	4.24		2.37						0
1510	2400						15	7	78											
06S/01E-30M01 M				8.3	640		59	29	34		0	253		39			0.1			266
9-23-68	5050						2.94	2.37	1.48			4.15		1.10						59
1410	2400						43	35	22											
06W/01W-11B01 M				8.6	605		69	19	42		12	282		24			0.1			251
9-03-68	5050						3.44	1.57	1.83		0.40	4.62		0.68						0
1320	2400						50	23	27											
06S/01W-14E01 M				8.3	740		70	21	54		0	248		82			0.1			261
9-03-68	5050						3.49	1.72	2.35			4.06		2.31						58
1400	2400						46	23	31											
06S/01W-15N03 M					1050									99						
9-27-68	5050													2.79						
1310	2400																			
06S/01W-15Q01 M					444									13						
9-25-68	5050													0.37						
1215	2400																			
06S/01W-16A01 M		61		8.1	1570		99	41	152		0	198		351			0.3			416
9-25-68	5050						4.94	3.37	6.61			3.24		9.90						254
1350	2400						33	23	44											
06S/01W-19C02 M					561									28						
9-25-68	5050													0.79						
1420	2400																			
06S/01W-26D01 M					460									11						
10-18-67	5050													0.31						
1500	2400																			
06S/01W-26D01 M					455									52						
9-27-68	5050													1.47						
1020	2400																			
06S/01W-27N03 M				8.4	449		42	13	28		2	212		14			0.2			158
10-18-67	5050						2.10	1.06	1.22		0.07	3.47		0.39						0
1400	2400						48	24	28											
06S/01W-27N04 M				8.4	477		48	16	33		4	219		14			0.1			188
9-25-68	5050						2.40	1.36	1.44		0.13	3.59		0.39						1
0950	2400						46	26	28											
06S/01W-29C01 M		66		8.4	591		64	18	42		6	269		29			0.2			233
9-25-68	5050						3.19	1.47	1.83		0.20	4.41		0.82						2
1110	2400						49	23	28											
06S/01W-31E01 M					647									31						
9-03-68	5050													0.87						
1230	2400																			
06S/02W-09H01 M				8.5	583		44	11	66		8	250		45			0.2			156
9-25-68	5050						2.20	0.92	2.87		0.27	4.10		1.27						0
1215	2400						37	15	48											
06S/02W-09Q02 M		61		8.2	619		51	16	59		0	245		36			0.1			191
9-24-68	5050						2.54	1.28	2.57			4.02		1.02						0
1240	2400						40	20	40											
06S/02W-20N01 M					584									36						
9-22-68	5050													1.02						
1130	2400																			
06S/02W-21A01 M					194									11						
9-24-68	5050													0.31						
1115	2400																			
06S/02W-24M01 M		64		8.2	954		90	42	47		0	297		41			0.1			399
9-25-68	5050						4.49	3.48	2.04			4.87		1.16						155
1010	2400						45	35	20											

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
SOUTH BAY AREA 2-09.02																		
06S/02W-29D02 M				720								39	37		0.0			
10-18-67	5050											1.10	0.60					
1130	2400																	
06S/02W-29D02 M				719								47	36		0.0			
9-27-68	5050											1.33	0.58					
1110	2400																	
06S/02W-34M01 M				634								36						
9-27-68	5050											1.02						
1220	2400																	
07S/01E-20B80 M				724								42	7.6		0.1			
8-30-68	5050											1.18	0.12					
1130	2400																	
07S/01E-25A02 M			8.6	991	28	97	52		29	472		73			0.1			468
8-31-68	5050				1.40	7.95	2.26		0.97	7.74		2.06						34
1000	2400				12	69	19											
07S/02E-07Q01 M				863								50						
9-27-68	5050											1.41						
0920	2400																	
07S/02E-18B01 M				1060								80						
8-30-68	5050											2.26						
1215	2400																	
07S/02E-19E01 M			8.4	810	54	38	61		4	352		43			0.0			291
8-30-68	5050				2.69	3.12	2.65		0.13	5.77		1.21						0
1040	2400				32	37	31											
07S/02E-33C04 M				868								42						
8-30-68	5050											1.18						
1110	2400																	
07S/01W-06B01 M				645								47						
9-26-68	5050											1.33						
1000	2400																	
07S/01W-35H01 M			8.5	565	53	26	17		5	158		54			0.1			237
10-05-67	5050				2.64	2.10	0.74		0.17	2.59		1.52						99
0830	2400				48	38	14											
07S/01W-35H01 M		67	8.2	502	54	22	16		0	165		44			0.0			226
9-18-68	5050				2.69	1.83	0.70			2.70		1.24						91
0940	2400				52	35	13											
08S/01E-04L04 M			8.4	461	41	28	16		4	217		17			0.1			216
8-30-68	5050				2.04	2.28	0.70		0.13	3.56		0.48						32
1030	2400				41	45	14											
08S/01E-08J01 M				417								32						
9-03-68	5050											0.90						
0920	2400																	
08S/01E-10G01 M			8.4	477	48	18	26		2	187		30			0.1			192
8-30-68	5050				2.40	1.44	1.13		0.07	3.06		0.85						35
1000	2400				48	29	23											
08S/01E-16D01 M		60	8.3	429	30	21	27		0	160		31			0.2			160
8-30-68	5050				1.50	1.70	1.17			2.62		0.87						29
0900	2400				34	39	27											
08S/01E-17B01 M			8.2	430	26	20	31		0	168		30			0.2			147
9-30-68	5050				1.30	1.64	1.35			2.75		0.85						9
1100	2400				31	38	31											
08S/01E-27C02 M				739								22	21		0.3			
9-03-68	5050											0.62	0.34					
0930	2400																	
08S/02E-07F01 M		61	7.9	576	40	36	24		0	253		17			0.1			246
8-19-68	5050				2.00	2.92	1.04			4.15		0.48						39
0920	2400				34	49	17											
08S/02E-16E01 M			8.4	545	46	34	21		4	261		16			0.1			256
8-20-68	5050				2.30	2.81	0.91		0.13	4.28		0.45						36
1330	2400				38	47	15											
08S/02E-17L02 M				544								17						
8-19-68	5050											0.48						
0940	2400																	
08S/02E-34A01 M			8.1	618	48	32	28		0	209		21			0.1			251
8-19-68	5050				2.40	2.61	1.22			3.42		0.59						80
1005	2400				38	42	20											

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab	pH Field	EC Lab	EC Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
SOUTH BAY AREA 2-09.02																				
08S/01W-15B01 M				8.6		671	51	35	30		11	194		31			0.1			273
10-17-67	5050						2.54	2.91	1.30		0.37	3.18		0.87						96
0855	2400						38	43	19											
08S/01W-15B01 M				8.3		664	57	32	27		0	232		32			0.0			273
8-20-68	5050						2.84	2.61	1.17			3.80		0.90						83
0900	2400						43	39	18											
09S/02E-02C01 M				8.1		633	48	32	31		0	237		26			0.1			250
8-19-68	5050						2.40	2.60	1.35			3.88		0.73						56
1035	2400						38	41	21											
09S/03E-22B03 M						468								15						
8-20-68	5050													0.42						
1130	2400																			
09S/03E-36F03 M				8.3		462	40	20	25		0	198		19			0.0			182
8-20-68	5050						2.00	1.64	1.09			3.24		0.54						20
1210	2400						42	35	23											
LIVERMORE VALLEY 2-10.00																				
02S/02E-35G02 M				7.9		3320	74	84	514		0	391		829			7.1			532
7-26-68	5050						3.69	6.94	22.36			6.41		23.39						211
1300	5100						11	21	68											
03S/01E-03Q01 M		64		8.5		1270	59	51	138		10	372		172			1.8			356
7-26-68	5050						2.94	4.17	6.00		0.33	6.10		4.85						42
1510	5100						22	32	46											
03S/01E-08H01 M		64		7.8		2560	117	119	237		0	384		489			2.0			784
7-26-68	5050						5.84	9.82	10.31			6.29		13.79						469
1515	5100						22	38	40											
03S/01E-08H03 M		62		7.8		1120	75	72	45		0	447		98			0.7			485
7-26-68	5050						3.74	5.95	1.96			7.33		2.76						119
1520	5100						32	51	17											
03S/01E-09A01 M				8.4		956	43	28	126		3	356		95			1.0			221
7-26-68	5050						2.14	2.28	5.48		0.10	5.78		2.68						0
1545	5100						22	23	55											
03S/01E-09K02 M		62		7.9		1240	55	70	96		0	445		123			2.0			426
7-26-68	5050						2.74	5.77	4.18			7.29		3.47						61
1535	5100						22	45	33											
03S/01E-09L01 M		62		7.9		1340	70	71	110		0	496		124			1.9			468
7-26-68	5050						3.49	5.86	4.78			8.13		3.50						61
1530	5100						24	42	34											
03S/01E-09P01 M		64		8.2		1340	96	64	93		0	527		135			1.8			502
7-26-68	5050						4.79	5.24	4.04			8.64		3.81						70
1525	5100						34	37	29											
03S/01E-11E01 M		64		8.0		1400	76	85	78		0	425		210			0.8			539
7-26-68	5050						3.79	6.98	3.39			6.96		5.92						191
1455	5100						37	49	24											
03S/01E-11H01 M				8.3		896	49	53	55		0	336		91			0.4			340
7-29-68	5050						2.44	4.35	2.39			5.51		2.57						64
1345	5100						27	47	26											
03S/01E-13P02 M				8.3		730	54	26	57		0	305		64			0.8			240
7-26-68	5050						2.69	2.11	2.48			5.00		1.80						0
1440	5100						37	29	34											
03S/01E-15L01 M				7.9		589	54	24	27		0	228		39			0.1			234
7-26-68	5050						2.69	1.99	1.17			3.74		1.10						47
	5100						46	34	20											
03S/01E-19A05 M				8.1		712	66	34	31		0	316		36			0.2			306
7-26-68	5050						3.29	2.82	1.35			5.18		1.02						47
1615	5100						44	38	18											
03S/02E-04M01 M				7.9		780	44	41	49		0	314		59			0.4			281
7-29-68	5050						2.20	3.41	2.13			5.15		1.66						24
	5100						28	44	28											
03S/02E-06P01 M				8.1		910	50	52	53		0	313		97			1.0			340
7-29-68	5050						2.50	4.29	2.30			5.13		2.74						83
1300	5100						28	47	25											
03S/02E-07K01 M				8.3		673	37	33	53		0	311		41			0.2			229
7-29-68	5050						1.85	2.73	2.30			5.10		1.16						0
	5100						27	40	33											
03S/02E-08H01 M		70		8.0		766	35	32	72		0	286		69			0.7			219
7-29-68	5050						1.75	2.63	3.13			4.69		1.95						0
	5100						23	35	42											

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter; Milliequivalents per Liter; Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
LIVERMORE VALLEY 2-10.00																		
03S/02E-10H01 M		67	8.3	864	46	36	79		0	278		93			1.3			262
7-26-68	5050				2.30	2.93	3.44			4.56		2.62						34
1410	5100				26	34	40											
03S/02E-29D01 M			8.3	783	61	34	47		0	296		60			0.4			294
7-26-68	5050				3.04	2.83	2.04			4.85		1.69						51
1430	5100				38	36	26											
03S/03E-19C01 M			7.9	1720	34	46	270		0	532		231			5.6			277
7-26-68	5050				1.70	3.83	11.74			8.72		6.52						0
1400	5100				10	22	68											
CENTRAL COASTAL REGION 3-00.00																		
PAJARO VALLEY 3-02.00																		
12S/01E-11N01 M			7.8	670			27		0	156		74	37.0					
9-26-68	5050						1.17			2.56		2.09	0.59					
1340																		
12S/01E-23R01 M			8.4	625			49		2	298		25	0					
9-26-68	5050						2.13		0.07	4.89		0.70						
1305																		
12S/02E-18K02 M			8.4	455			26		1	212		13	0.5					
9-26-68	5050						1.13		0.03	3.48		0.37	0.01					
1145																		
12S/02E-19M01 M			7.9	1310			48		0	297		237	0					
9-26-68	5050						2.09			4.87		6.68						
1030																		
12S/02E-31K01 M		69	7.7	1950			107		0	201		441	18.0					
8-26-68	5050						4.65			3.30		12.44	0.29					
1430																		
12S/02E-32C01 M		69	8.4	622			36		4	220		44	4.0					
8-26-68	5050						1.56		0.13	3.61		1.24	0.06					
1455																		
12S/02E-32K01 M		68	8.1	633			41		0	260		33	2.0					
9-26-68	5050						1.78			4.26		0.93	0.03					
1000																		
12S/03E-19M01 M		65	8.2	390			37		0	94		62	12.0					98
8-22-68	5050						1.61			1.54		1.75	0.19					21
1435							45											
12S/03E-30A01 M		71	7.9	552			50		0	105		83	37.0					139
8-15-68	5050						2.17			1.72		2.34	0.59					53
1448							44											
13S/01E-01A01 M			7.6	3760			260		0	265		955	11.0					
7-03-68	5050						11.31			4.35		26.93	0.18					
1500																		
13S/02E-06E02 M		65	8.4	1590			149		3	215		294	47.0					
7-08-68	5050						6.48		0.10	3.52		8.29	0.76					
1300																		
13S/02E-06P01 M			8.4	983			192		3	186		154	0					
9-26-68	5050						8.35		0.10	3.05		4.34						
0900																		
GILROY-HOLLISTER VALLEY 3-03.00																		
10S/03E-01E02 M		64	7.9	540			17		0	217		19	34.0					
9-25-68	5050						0.74			3.56		0.53	0.55					
1545																		
10S/03E-23J02 M			7.7	536			21		0	185		30	50.0					
9-25-68	5050						0.91			3.03		0.85	0.80					
1525																		
10S/04E-18G02 M			8.0	532			19		0	214		28	26.0					
9-25-68	5050						0.83			3.51		0.79	0.42					
1400																		
10S/04E-18J01 M		69	8.3	476			26		0	222		18	16.0					
9-25-68	5050						1.13			3.64		0.51	0.26					
1345																		
10S/04E-34L05 M		66	8.1	850			48		0	321		62	56.0					
9-25-68	5050						2.09			5.26		1.75	0.90					
1250																		
11S/04E-21B02 M			7.7	797			27		0	324		26	48.0					
9-25-68	5050						1.17			5.31		0.73	0.77					
1150																		

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time	Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter; Milliequivalents per Liter; Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
GILROY-HOLLISTER VALLEY 3-03.00																		
11S/05E-26Q03 M			7.9	535			24		0	236		22	3.2					
9-25-68	5050						1.04			3.87		0.62	0.05					
1145																		
12S/05E-36A01 M			8.6	1390			266		17	476		150	0.1					
9-25-68	5050						11.57		0.57	7.81		4.23	0.00					
12S/06E-07M02 M			7.9	435			57		0	223		22	3.1					
9-25-68	5050						2.48			3.66		0.62	0.05					
12S/06E-19E01 M			7.7	1580			250		0	361		334	0					
9-25-68	5050						10.87			5.92		9.42						
12S/06E-31B01 M			8.4	2450			413		12	512		490	1.2					
9-25-68	5050						17.96		0.40	8.40		13.82	0.02					
1530																		
13S/05E-03J01 M			8.4	1440			147		4	397		110	12.0					
9-25-68	5050						6.39		0.13	6.51		3.10	0.19					
13S/05E-11B05 M			8.4	363			21		1	102		23	26.0					
9-25-68	5050						0.91		0.03	1.67		0.65	0.42					
1430																		
SALINAS VALLEY 3-04.00																		
13S/02E-01K01 M		69	7.3	256			25		0	71		29	20.0					66
8-22-68	5050						1.09			1.16		0.82	0.32					8
1315							45											
13S/02E-07R01 M			7.8	976			168		0	257		124	0.5					104
7-03-68	5050						7.31			4.21		3.50	0.01					0
1230							78											
13S/02E-13N01 M		69	7.3	237			28		0	65		37	1.9					49
8-22-68	5050						1.22			1.06		1.04	0.03					0
1255							55											
13S/02E-19R01 M		67	8.0	1110			106		0	223		226	1.2		0			297
7-08-68	5050						4.61			3.66		6.37	0.02					114
1320							44											
13S/02E-20J01 M			7.7	1350			104		0	71		262	1.8					393
7-08-68	5050						4.52			1.16		7.39	0.03					335
1300							37											
13S/02E-29C04 M		71	7.9	783			96		0	188		136	1.2					163
7-08-68	5050						4.17			3.08		3.83	0.02					9
1330							56											
13S/02E-31D02 M			7.9	1230			134		0	212		264	1.7					281
7-22-68	5050						5.83			3.48		7.44	0.03					107
1040							51											
13S/02E-31M02 M		69	8.2	1270			124		0	176		299	2.0					311
7-08-68	5050						5.39			2.89		8.43	0.03					167
1430							46											
13S/02E-31N02 M		71	8.0	1310			107		0	162		294	2.3					384
7-08-68	5050						4.65			2.66		8.29	0.04					251
							38											
13S/02E-32A02 M		73	8.1	650			66		0	243		76	1.6					185
8-22-68	5050						2.87			3.98		2.14	0.02					0
1340							44											
13S/02E-32C01 M		68	8.0	536			53		0	203		56	1.2					153
7-02-68	5050						2.30			3.33		1.58	0.02					0
1200							43											
13S/02E-32N01 M		71	8.3	621			74		0	216		67	2.1					144
7-09-68	5050						3.22			3.54		1.89	0.03					0
1030							53											
13S/02E-33R01 M			8.2	1010			67		0	254		131	27.0					368
7-12-68	5050						2.91			4.16		3.69	0.43					159
1030							28											
13S/03E-04L01 M		66	7.9	284			32		0	83		42	1.7					68
8-15-68	5050						1.39			1.36		1.18	0.03					0
1230							51											
13S/03E-20B02 M		70	7.8	278			31		0	79		40	5.8					62
8-15-68	5050						1.35			1.29		1.13	0.09					0
1235							52											

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
SALINAS VALLEY 3-04.00																	
13S/03E-29A01 M 8-14-68 5050 1213	72	7.8	533			63 2.74 58		0	55 0.90		114 3.21	17.0 0.27					99 54
14S/01E-24Q02 M 8-14-68 5050 0957	65	7.8	1480			122 5.31 39		0	32 0.52		224 6.32	0.7 0.01					418 392
14S/01E-25K01 M 8-14-68 5050 0950	64	7.6	634			64 2.78 51		0	34 0.56		136 3.83	42.0 0.68					135 107
14S/02E-06Q01 M 7-09-68 5050 1115	73	7.9	606			77 3.35 55		0	208 3.41		59 1.66	2.6 0.04					136 0
14S/02E-06R02 M 7-09-68 5050 1100		7.7	590			68 2.96 53		0	111 1.82		54 1.52	87.0 1.40					129 38
14S/02E-08M02 M 7-09-68 5050 1520	71	8.0	491			54 2.35 47		0	196 3.21		48 1.35	1.8 0.03					132 0
14S/02E-11D01 M 7-12-58 5050 1300		8.3	688			45 1.96 28		0	242 3.97		72 2.03	7.3 0.12					256 57
14S/02E-12Q01 M 7-18-68 5050 1300	68	8.4	553			35 1.52 26		6 0.20	229 3.75		43 1.21	7.2 0.11					211 13
14S/02E-14N01 M 7-18-68 5050 1400		8.2	601			54 2.35 39		0	199 3.26		62 1.75	3.7 0.06					183 20
14S/02E-16A01 M 7-12-68 5050 1530		8.2	733			60 2.61 36		0	171 2.80		78 2.20	0.4 0.01					233 93
14S/02E-18D01 M 7-09-68 5050 1500	63	8.0	1500			124 5.39 34		0	244 4.00		274 7.73	5.5 0.09					534 334
14S/02E-23J01 M 7-18-68 5050 1030	68	8.1	1030			83 3.61 35		0	195 3.20		127 3.58	8.4 0.13					329 169
14S/02E-24E01 M 7-18-68 5050 1245	71	8.1	700			59 2.57 37		0	210 3.44		80 2.26	3.5 0.06					218 46
14S/02E-25B01 M 8-29-68 5050 1330	63	8.1	1550			119 5.18 33		0	296 4.85		229 6.46	14.0 0.22					513 270
14S/03E-30E01 M 7-22-68 5050 1300		8.0	2190			184 8.00 35		0	411 6.74		372 10.49	13.0 0.21					732 395
14S/03E-33G01 M 8-13-68 5050 1015	68	7.8	927			63 2.74		0	227 3.72		118 3.33	7.5 0.12					
15S/01E-22C01 M 8-14-68 5050 0930		7.3	910			87 3.78		0	203 3.33		128 3.61	12.0 0.19					
15S/01E-26N02 M 8-14-68 5050 1010	75	7.3	1080			122 5.31		0	142 2.33		204 5.75	8.5 0.14					
15S/02E-02Q01 M 7-19-68 5050 1300	64	7.3	1260			76 3.30		0	362 5.94		88 2.48	0					
15S/03E-04K03 M 8-14-68 5050 1500	70	7.9	721			55 2.39		0	184 3.02		41 1.16	0.7 0.01					
15S/03E-07D02 M 7-12-68 5050 1008	71	7.9	486			24 1.04		0	160 2.62		13 0.37	1.5 0.02					
15S/03E-16M01 M 7-12-68 5050 1500	64	7.9	1180			59 2.57		0	378 6.20		72 2.03	6.2 0.10					

TABLE E-1 (Cont.)

MINERAL ANALYSES OF GROUND WATER

State Well Number / Date / Time / Lab / Sampler	Temp.	pH Lab / Field	EC Lab / Field	Mineral Constituents in Milligrams per Liter / Milliequivalents per Liter / Percent Reactance Value: Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	Milligrams per Liter: F	B	SiO_2	TDS SUM	TH NCH
SALINAS VALLEY 3-04.00																	
16S/02E-01L01 M 8-30-68 5050 1330		7.1	659			76 3.30		0	133 2.18		111 3.13	8.0 0.13					
16S/02E-03J01 M 8-30-68 5050 1215		7.2	854			68 2.96		0	260 4.26		104 2.93	5.0 0.08					
16S/02E-12G01 M 8-30-68 5050 1430		7.0	454			62 2.70		0	108 1.77		65 1.83	1.2 0.02					
17S/05E-09Q01 M 7-02-68 5050 1235	61	8.0	616			29 1.26		0	210 3.44		24 0.68	0.3 0.00					
17S/06E-07Q01 M 7-02-68 5050 1400	62	8.0	721			54 2.35		0	178 2.92		55 1.55	12.0 0.19					
17S/06E-27K01 M 7-03-68 5050 1100	64	7.7	1160			100 4.35		0	283 4.64		70 1.97	7.5 0.12					
17S/06E-35F01 M 7-03-68 5050 1025	64	8.5	1080			113 4.91		7 0.23	212 3.48		73 2.06	1.8 0.03					
18S/06E-01E01 M 7-08-68 5050 0912	65	7.9	806			74 3.22		0	250 4.10		32 0.90	15.0 0.24					
18S/06E-28J01 M 7-08-68 5050 1350	64	7.9	536			22 0.96		0	175 2.87		21 0.59	9.5 0.15					
19S/07E-10P01 M 7-09-68 5050 1055	62	7.6	1120			58 2.52		0	235 3.85		150 4.23	25.0 0.40					
19S/07E-13D02 M 7-09-68 5050 1115	62	8.4	1610			140 6.09		0	348 5.71		87 2.45	37.0 0.59					
19S/08E-32A01 M 7-09-68 5050 1315	65	8.5	3730			502 21.84		10 0.33	287 4.71		350 9.87	34.0 0.55					
19S/08E-33R01 M 7-09-68 5050 1215	66	8.4	3240			397 17.27		5 0.17	296 4.85		307 8.66	31.0 0.50					
20S/08E-24J02 M 7-16-68 5050 1000	72	7.3	3980			462 20.10		0	258 4.23		781 22.02	4.2 0.07	0.80				
21S/09E-07J01 M 7-10-68 5050 1105	68	7.9	1940			136 5.91		6 0.20	229 3.75		175 4.93	47.0 0.76					
21S/09E-24L01 M 7-10-68 5050 1040	66	8.4	2050			167 7.26		1 0.03	254 4.16		112 3.16	12.0 0.19	0.60				
22S/10E-17N01 M 7-10-68 5050 0920	65	8.4	730			39 1.70		4 0.13	188 3.08		46 1.30	12.0 0.19					
22S/10E-34G01 M 9-10-68 5050 1053	69	8.5	961			80 3.48		7 0.23	272 4.46		94 2.65	4.2 0.07	0.50				
23S/08E-08K01 M 8-23-68 5050		8.4	302			23 1.00		1 0.03	112 1.84		20 0.56	9.3 0.15					
CARMEL VALLEY 3-07.00																	
16S/01E-25B01 M 8-28-68 5050 0955	67	7.8	488			37 1.61		0	129 2.11		29 0.82	2.0 0.03					
16S/01W-13L02 M 8-28-68 5050 0955	67	8.4	915			69 3.00		3 0.10	244 4.00		100 2.82	2.2 0.03				303 98	

TABLE E-2

TRACE ELEMENT ANALYSES OF GROUND WATER

State Well Number	Date Sampled	Constituents in Milligrams per Liter						
		Aluminum	Arsenic	Copper	Iron	Lead	Manganese	Zinc
NORTH COASTAL REGION 1-00.00								
POINT ARENA 1-20.00								
12N/16W-18K01M	9-10-68				0.02			
12N/17W-12L01M	9-11-68				0.08			
12N/17W-13L01M	9-11-68				0.00			
13N/16W-31M01M	9-12-68				0.00			
13N/17W-24D01M	9-12-68				0.01			
13N/17W-25H01M	9-12-68				0.16			
FORT BRAGG TERRACE 1-21.00								
16N/17W-30M01M	9-11-68				0.00			
17N/17W-19P01M	9-11-68				5.9			
17N/17W-30F01M	9-11-68				0.01			
18N/17W-07K01M	9-10-68				0.00			
18N/17W-19D01M	9-10-68				0.01			
19N/17W-20N01M	9-10-68				2.3			
19N/17W-30G01M	9-10-68				0.00			
19N/17W-30Q01M	9-10-68				0.05			

Appendix F

WASTE WATER

INTRODUCTION

Waste waters constitute a portion of our total water resources, and, like streams and lakes, if carefully managed can be put to good use. This appendix contains data on the quality and quantity of waste water discharged at various locations in the Central Coastal Area and on the use of such waters. Data are presented for the period from October 1, 1967, through September 30, 1968.

In all tabulations, data are presented according to California Water Quality Control Board regions which are geographic areas defined in Section 13040 of the Water Code. For the Central Coastal Area these are: the southern portion of the North Coastal Region; the San Francisco Bay Region; and the northern portion of the Central Coastal Region.

Prior departmental publications which contain similar data for the Central Coastal Area as well as other portions of the State, and additional reports on reclamation of water from wastes in specific areas are:

"Reclamation of Water from Sewage or Industrial Waste." December 1952. (Data for 1950-51 and 1951-52.)

"Reclamation of Water from Sewage or Industrial Waste." June 1954. (Data for 1952-53.)

"Reclamation of Water from Sewage and Industrial Wastes, July 1, 1953-June 30, 1955." Bulletin No. 68. January 1958.

"Reclamation of Water from Sewage and Industrial Wastes in California, July 1, 1955-June 30, 1962." Bulletin No. 68-62. October 1963.

"Quantity, Quality and Use of Waste Water in Southern California, July 1, 1962-June 30, 1963." Office report. December 1965.

"Quantity, Quality and Use of Waste Water in Southern California, July 1, 1962-June 30, 1963." Office report. April 1966.

"Quality and Use of Waste Water 1962-1965." Office report. July 1966. (Data for Central Coastal California including San Francisco Bay area.)

"Quantity, Quality and Use of Waste Water in Southern California, July 1, 1964-June 30, 1965." Office report. January 1967.

"Reclamation of Water from Sewage and Industrial Wastes, Watsonville Area, Santa Cruz and Monterey Counties." Bulletin No. 67. 1955.

"Feasibility of Reclamation of Water from Sewage in International Outfall Sewer, Tia Juana Valley, California." Office report. December 1955.

"Feasibility of Reclamation of Water from Wastes in the Los Angeles Metropolitan Area." Bulletin No. 80. December 1961.

"Reclamation of Water from Wastes in Coastal San Diego County." Bulletin No. 80-2. February 1968.

"Reclamation of Water from Wastes: Coachella Valley." Bulletin No. 80-3. December 1966.

Department bulletins may be purchased from the Office of Procurement, Documents Section, P. O. Box 20191, Sacramento, California, 95820. They may be found in the Resources Agency Library at 1416 Ninth Street, Sacramento, as well as in many public libraries throughout the State. Office reports are prepared for intradepartmental use, but are often available for reference in department offices.

Changes in Inventory Program

North Coastal Region

In 1967-68, data were obtained concerning four waste dischargers not previously reported. They are:

1. City of Cotati. This treatment plant is located in Section 26 of Township 6 North, Range 8 West, Sonoma County. Treatment consists of grinding, primary settling, ponding; sludge digestion, and drying. The average flow during the 1967-68 water year was 0.1 mgd.

2. City of Rohnert Park. This treatment plant is located in Section 22 of Township 6 North, Range 8 West, Sonoma County. Treatment consists of grinding, primary settling, ponding; sludge digestion, and drying. The average flow during the 1967-68 water year was 0.5 mgd.

3. City of Santa Rosa (Laguna Plant). This treatment plant is located in Section 17 of Township 6 North, Range 8 West, Sonoma County. Treatment consists of grinding, aerated grit removal, primary settling, aeration, secondary settling, chlorination, and aerated sludge digestion. The average flow during the 1967-68 water year was 0.2 mgd.

4. City of Santa Rosa (Oakmont Water Reclamation Plant). This treatment plant is located in Section 15 of Township 7 North, Range 7 West, Sonoma County. Treatment consists of grinding, aeration, settling, chlorination, sand filtration, ponding; sludge digestion, and drying. The average flow during the 1967-68 water year was 0.04 mgd.

San Francisco Bay Region

In 1967-68, data were obtained concerning seven waste dischargers not previously reported. They are:

1. Contra Costa Sanitary District No. 3. This treatment plant is located in Section 20 of Township 2 North, Range 4 West, Contra Costa County. Treatment consists of grit removal, grinding, and primary settling; sludge digestion, and drying. The average flow during the 1967-68 water year was 1.0 mgd.

2. Estero Municipal Improvement District (Foster City). This treatment plant is located in Section 23 of Township 4 South, Range 4 West, San Mateo County. Treatment consists of grinding, primary settling, chlorination, and sludge incineration. The average flow during the 1967-68 water year was 1.2 mgd.

San Francisco Bay Region (Continued)

3. Marin County Sanitary District No. 5 (Tiburon). This treatment plant is located in Section 6 of Township 1 South, Range 5 West, Marin County. Treatment consists of prechlorination, grinding, primary settling, postchlorination, sludge digestion, and filtration. The average flow during the 1967-68 water year was 0.7 mgd.

4. Richardson Bay Sanitary District. This treatment plant is located in Section 36 of Township 1 North, Range 6 West, Marin County. Treatment consists of grinding, prechlorination, primary settling, primary mixing (spiral vortex), step aeration, secondary mixing (spiral vortex), secondary settling, postchlorination; sludge digestion, and incineration. The average flow during the 1967-68 water year was 0.2 mgd.

5. San Francisco International Airport. This treatment plant is located in Section 34 of Township 3 South, Range 5 West, San Mateo County. Treatment consists of prechlorination, oil flotation, screening, grinding, primary settling; primary and secondary sludge digestion and drying. The average flow during the 1967-68 water year was 0.9 mgd.

6. Treasure Island (U. S. Navy). This treatment plant is located in Section 6 of Township 1 South, Range 5 West, San Francisco County. A new treatment plant is expected to be completed by July 1969 and will consist of prechlorination, grinding, preaeration, grit removal, primary settling, biofiltration, secondary settling, postchlorination; primary and secondary sludge digestion, and centrifuging. The average flow during the 1967-68 water year was 0.9 mgd.

7. Yountville Veterans Home. This treatment plant is located in Section 1 of Township 6 North, Range 5 West, Napa County. Treatment consists of prechlorination, grinding, primary settling, primary biofiltration, secondary settling, secondary biofiltration, postchlorination; sludge digestion, and drying. The average flow during the 1967-68 water year was 0.2 mgd.

Central Coastal Region

1. Morgan Hill. The Morgan Hill treatment plant has been shut down and all sewage is pumped to the City of Gilroy plant for treatment. Currently, the Gilroy plant has not changed its treatment process, but a new and enlarged plant is being designed.

DEFINITIONS

The following terms are defined for use in this appendix:

Sewage. Any and all waste substances, liquid or solid, associated with human habitation, or which contain or may be contaminated with human or animal excreta or excrement, offal, or any feculent matter. (Section 13005 of the Water Code.)

Other Waste. Any and all liquid or solid waste substances (not sewage) from any producing, manufacturing, or processing operation of whatever nature. (Section 13005 of the Water Code.)

Waste Water. Water containing sewage, other waste, or any combination thereof.

Sewerage System. A system for collecting, transporting, pumping, treating, and disposing of sewage and other wastes.

Reclaimed Waste Waters. Waters containing sewage or other waste which have been treated or otherwise purified to enable direct beneficial reuse or to allow reuse that would not otherwise occur. (Section 13005.1 of the Water Code.)

Primary Sewage Treatment. Treatment in a sewage treatment plant, which removes by sedimentation and flotation, a large portion of suspended matter, but little or no colloidal and dissolved matter. May be the first step in a major sewerage system or the total process in smaller sewerage systems.

Secondary Sewage Treatment. Treatment of sewage by biological methods which follows primary treatment and which accomplishes further stabilization of organic matter.

TABLE F-1

SUMMARY

QUANTITY OF WASTE WATER DISCHARGED AND REUSED
CENTRAL COASTAL AREA
WATER YEAR 1968

Water Quality Control Region	Volume in Acre-Feet			
	Reused	Place of Disposal for Waste Water not Reused		Total Discharged
		Land or Watercourse	Saline Water Body	
North Coastal Region (No. 1)	730	12,800	0	12,800
Number of Dischargers	5	9		10
San Francisco Bay Region (No. 2)	4,040	18,700	579,600	598,300
Number of Dischargers	6	6	57	65
Central Coastal Region (No. 3)	650	20,000	23,900	43,900
Number of Dischargers	2	22	9	31
TOTAL	5,420	51,500	603,500	655,000
DISCHARGERS	13	37	66	106

TABLE F-2

QUANTITY OF WASTE WATER DISCHARGED AND REUSED

CENTRAL COASTAL AREA

WATER YEAR 1968

Discharger	Average Discharge Rate (Mgd)	Volume Discharged (AF)	Portion Reused (AF)	Type of Reuse	Place of Disposal For Waste Water Not Reused
North Coastal Water Quality Control Board Region (No. 1)					
City of Cloverdale	0.3	340	0		Russian River
City of Cotati	0.1	110	0		Laguna de Santa Rosa
City of Healdsburg	0.5*	560	24	Irrigation	Dry Creek
Mendocino State Hospital	0.4	450	450	Irrigation	
City of Rohnert Park	0.5	560	0		Laguna de Santa Rosa
City of Santa Rosa					
Laguna Plant	0.2	230	0		Laguna de Santa Rosa
Oakmont Plant	<0.1	40	5	Irrigation	Land
West College Avenue Plant	6.6	7,400	0		Santa Rosa Creek
City of Sebastopol	0.4*	450	240	Irrigation	Laguna de Santa Rosa
City of Ukiah	2.4	2,690	8	Irrigation	Russian River
TOTAL IN REGION 1	11.5	12,830	727		
San Francisco Bay Water Quality Control Board Region (No. 2)					
City of Benicia	0.6	670	0		Carquinez Strait
City of Burlingame	3.4	3,810	0		San Francisco Bay
C and H Sugar Refinery	44.4	49,700	0		Carquinez Strait
Central Contra Costa Sanitary District	18.8	21,100	0		Suisun Bay
Contra Costa Sanitary District No. 3	1.0	1,120	0		San Pablo Bay
Contra Costa Sanitary District No. 7A	0.8	900	0		Suisun Bay
City of Concord	4.0	4,480	0		Walnut Creek
Crockett-Valona Sanitary District	0.3	340	0		Carquinez Strait
East Bay Municipal Utility District	81.4	91,200	440	Cooling	San Francisco Bay
Estero Municipal Improvement District	1.2	1,340	0		San Francisco Bay
Fairfield-Suisun Sewer District	3.5	3,920	0		Suisun Slough
City of Hayward	11.6	13,000	0		San Francisco Bay
Las Gallinas Valley Sanitary District	2.4	2,690	0		Miller Creek
City of Livermore	2.7	3,020	530	Irrigation	Land
City of Los Altos	1.5	1,680	0		San Francisco Bay

* Estimated

TABLE F-2 (Continued)

QUANTITY OF WASTE WATER DISCHARGED AND REUSED

CENTRAL COASTAL AREA

WATER YEAR 1968

Discharger	Average Discharge Rate (Mgd)	Volume Discharged (AF)	Portion Reused (AF)	Type of Reuse	Place of Disposal For Waste Water Not Reused
San Francisco Bay Water Quality Control Board Region (No. 2) (Continued)					
Marin County Sanitary District					
District No. 1	5.0	5,600	0		San Francisco Bay
District No. 5 (Main)	0.7	780	0		Raccoon Strait
District No. 6 (Ignacio)	0.7	780	0		San Pablo Bay
District No. 6 (Novato)	2.1	2,350	0		Novato Creek
City of Martinez	1.3	1,460	0		Carquinez Strait
Menlo Park Sanitary District	4.7	5,260	0		San Francisco Bay
City of Mill Valley	1.6	1,790	0		Richardson Bay
City of Milbrae	1.9	2,130	0		San Francisco Bay
Milpitas Sanitary District	2.3	2,580	0		Coyote Creek
City of Mountain View	5.9	6,610	0		San Francisco Bay
Mountain View Sanitary District	0.6	670	0		Carquinez Strait
Napa Sanitation District	5,6	6,270	0		Napa River
North San Mateo County Sanitation District	3.6	4,030	0		Pacific Ocean
Oro Loma Sanitary District	13.2	14,800	0		San Francisco Bay
City of Pacifica					
Linda-Mar Plant	1.5	1,680	0		Pacific Ocean
Sharp Park Plant	0.9	1,010	0		Pacific Ocean
City of Palo Alto	11.9	13,300	40	Fire Control	San Francisco Bay
City of Petaluma	2.1	2,350	0		Petaluma River
City of Pinole	0.8	900	0		San Pablo Bay
City of Pleasanton	0.9	1,010	1,010	Irrigation	
City of Redwood City	7.1	7,950	0		San Francisco Bay
Richardson Bay Sanitary District	0.2	220	0		Raccoon Strait
City of Richmond	8.7	9,740	0		San Francisco Bay
Rodeo Sanitary District	0.6	670	0		San Pablo Bay
Cities of San Carlos-Belmont	4.5	5,040	0		San Francisco Bay
San Francisco International Airport	0.9	1,010	0		San Francisco Bay
City and County of San Francisco					
McQueen Plant	0.8	900	900	Landscape Irrigation	
North Point Plant	60.7	68,000	0		San Francisco Bay
Richmond-Sunset Plant	20.6	23,100	0		Pacific Ocean
Southeast Plant	18.8	21,100	0		San Francisco Bay
City of San Jose	75.5	84,600	0		San Francisco Bay
City of San Leandro					
Domestic Plant	3.9	4,370	0		San Francisco Bay
Industrial Plant	3.0	3,360	0		San Francisco Bay

TABLE F-2 (Continued)

QUANTITY OF WASTE WATER DISCHARGED AND REUSED

CENTRAL COASTAL AREA

WATER YEAR 1968

Discharger	Average Discharge Rate (Mgd)	Volume Discharged (AF)	Portion Reused (AF)	Type of Reuse	Place of Disposal For Waste Water Not Reused
San Francisco Bay Water Quality Control Board Region (No. 2) (Continued)					
City of San Mateo	9.4	10,500	0		San Francisco Bay
San Pablo Sanitary District	6.7	7,500	0		San Pablo Bay
San Rafael Sanitation District	2.4	2,690	0		San Francisco Bay
Sausalito-Marin City Sanitary District	1.7	1,900	0		San Francisco Bay
Shell Chemical Company, Pittsburg Plant	14	15,700	0		Suisun Bay
Sonoma Valley County Sanitation District	1.7	1,900	0		Schell Slough
Cities of South San Francisco-San Bruno	8.7	9,740	0		San Francisco Bay
Stege Sanitary District	3.7	4,140	0		San Francisco Bay
City of Sunnyvale	14.2	15,900	0		San Francisco Bay
Travis Air Force Base	1.5	1,680	1,120	Irrigation	Union Creek
Treasure Island, U. S. N.	1.0	1,120	0		San Francisco Bay
Union Sanitary District					
Newark Plant No. 1	3.9	4,370	0		San Francisco Bay
Irvington Plant No. 2	5.1	5,710	0		San Francisco Bay
Alvarado Plant No. 3	1.3	1,460	0		San Francisco Bay
Vallejo Sanitation and Flood Control District	6.9	7,730	0		Carquinez Strait
Valley Community Services District	1.5	1,680	0		Alamo Canal
Yountville Vetrans Home	0.2	220	0		Napa River
TOTAL IN REGION 2	534.1	598,330	4,040		
Central Coastal Water Quality Control Board Region (No. 3)					
Aptos County Sanitation District	0.5	560	0		Monterey Bay
Atascadero County Sanitation District	<0.1	70	0		Land
Atascadero State Hospital	0.3	350	0		Land
Carmel Sanitary District	0.9	1,010	600	Irrigation	Carmel Bay
Castroville County Sanitation District	0.4	450	0		Tembladero Slough
Chular County Sanitation District	<0.1	20	0		Land
East Cliff County Sanitation District	2.2*	2,460	0		Monterey Bay

*Estimated

TABLE F-2 (Continued)

QUANTITY OF WASTE WATER DISCHARGED AND REUSED

CENTRAL COASTAL AREA

WATER YEAR 1968

Discharger	Average Discharge Rate (Mgd)	Volume Discharged (AF)	Portion Reused (AF)	Type of Reuse	Place of Disposal For Waste Water Not Reused
Central Coastal Water Quality Control Board Region (No. 3) (Continued)					
City of Gilroy					
Domestic	1.4 1/	1,560	0		Land
Industrial	1.5	1,680	0		Land
City of Gonzales	0.3	340	0		Land
City of Greenfield	0.2	220	0		Land
City of Hollister					
Domestic Plant	0.6	670	0		Land
Industrial Plant	1.5	1,680	0		San Benito River
City of King City					
Domestic Plant	0.4	450	0		Salinas River
Airport Plant	<0.1	80	0		San Lorenzo Creek
City of Monterey	2.6	2,910	0		Monterey Bay
City of Morgan Hill	0 2/	0	0		Land
City of Pacific Grove	1.8 3/	2,020	0		Pacific Ocean
City of Paso Robles	0.9	960	0		Salinas River
Paso Robles School for Boys	<0.1	70	0		Land
City of Salinas					
Domestic Plant 1	4.4	4,930	0		Salinas River
Domestic Plant 2 (Alisal)	1.1	1,230	0		Salinas River
Industrial	4.2	4,700	0		Land
City of San Juan Bautista	0.1	110	0		Land
San Miguel Sanitary District	<0.1 3/	100	0		Land
City of Santa Cruz	6.0	6,720	0		Monterey Bay
Seaside County Sanitation District	1.3	1,460	0		Monterey Bay
Soledad Prison (California Correctional Training Facility)	0.5	560	50	Irrigation	Salinas River
City of Soledad	0.2	220	0		Land
Tres Pinos County Water District	<0.1	<10	0		Land
City of Watsonville	5.6	6,270	0		Monterey Bay
TOTAL IN REGION 3	39.5	43,880	650		

1/ Includes Morgan Hill
2/ Included in Gilroy Domestic
3/ Estimated

TABLE F-3

ANALYSES OF WASTE WATER

PART I

Source	Date / Time (PST)	Type of Sample	Flow in mgd	pH Lab	Specific conductance (micromhos at 25°C)	Mineral constituents — milligrams per liter / milliequivalents per liter: Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Ammonium (NH_4)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Boron (B)	Fluoride (F)	Silica (SiO_2)	T.D.S. in mg/l	Hardness as $CaCO_3$ in mg/l: Total	Hardness as $CaCO_3$ in mg/l: N.C	Percent Sodium
SAN FRANCISCO BAY REGION (No. 2)																						
EAST BAY MUNICIPAL UTILITY DISTRICT 1/	10- -67	Monthly Average	77.9	6.7		59.5	15.9	200					132	332						215		
	11- -67	Monthly Average	74.8	6.8		42.6	21.6	178						415						196		
	12- -67	Monthly Average	76.4	6.9		28.1	14.2						132	174						130		
	1- -68	Monthly Average	88.5	7.0				142														
	2- -68	Monthly Average	90.2	6.9		48.3	15.1						106	269						184		
	3- -68	Monthly Average	92.9	6.9		47.4	11.9	210					126	256						168		
	4- -68	Monthly Average	78.2	6.9		31.7	11.5						100	244						127		
	5- -68	Monthly Average	76.9	6.8		30.3	9.9						86	258						117		
	6- -68	Monthly Average	77.2	6.7		27.0	16.1	150					96	292						135		
	7- -68	Monthly Average	80.4	7.0		28.4	20.8	175	21.5				146	310						138		
	8- -68	Monthly Average	83.5	7.2		26.6	17.5							310						139		
	9- -68	Monthly Average	79.7	7.1		33.4	17.4						128	355						151		
CITY OF LIVERMORE 1/	1- -68	Monthly Average	2.7	7.9	1549	52.6	45.8	212	15.6	20	0	138		386		1.0	0.5		844			60
	2- -68	Monthly Average	2.6	7.6	1626	53.3	36.7	252	16.4	9.7	0	83		334		1.6	0.24		1135			62
	3- -68	Monthly Average	2.4	7.8	1660	58	50	290	15	< 0.01	0	85		450		1.3	0.65		1291			63
	4- -68	Monthly Average	2.4	7.6	2181	61	41	310	18.2	37	0	122		445		2.2	0.24		1461			60
	5- -68	Monthly Average	2.6	7.8	1925	54.5	40.8	260	13	1.3	0	127		470		2.1	0.40		1261			64
	6- -68	Monthly Average	2.6	7.6	1700	55	34	236	9.9	< 0.01	0	57		359		2.5	0.22		1114			64
	7- -68	Monthly Average	2.8	7.8	1719	68	20	222	12	0.60	0	106		354		1.1	0.34		1089			64
	8- -68	Monthly Average	2.6	7.6	1717	38	36	203	12.0	0.81	0	68		360		1.4	0.36		1051			63
	9- -68	Monthly Average	2.7	7.8	1225	46	30	223	12.4	0.42	0	34		348		1.0	0.30		1012			65
MENLO PARK SANITARY DISTRICT	10-30-67	18-Hour Composite	3.35	7.0	1380			162 / 7.05						229 / 6.46		0.9			840	191		65
CITY OF MILLBRAE	10-27-67	6-Hour Composite		6.9	3160			455 / 19.79						765 / 21.58		1.0			1800	328		75
CITY OF MOUNTAIN VIEW	10-31-67	24-Hour Composite	5.72	7.4	1770			191 / 8.31						260 / 7.33		0.8			709	212		66
CITY OF PALO ALTO	10-27-67	24-Hour Composite		7.1	1050			119 / 5.18						117 / 3.30		1.1			535	155		62

1/ All analyses reported by discharger.

TABLE F-3

ANALYSES OF WASTE WATER

PART 2

Source	Date / Time P.S.T.	Type of sample	Flow in mgd	Heavy Metals in mg/l								Organics in mg/l				Nutrients in mg/l						
				Aluminum (Al)	Arsenic (As)	Chromium (Hex) (Cr^{+6})	Copper (Cu)	Lead (Pb)	Manganese (Mn)	Zinc (Zn)	Total iron (Fe)	Detergents (mbas)	Grease and oil	Phenols	BOD (5 day)	Nitrogen Series					Phosphate	
																(NH_3)	(NO_2)	(NO_3)	ORG	(NH_3) + ORG	Ortho (PO_4)	Total
NORTH COASTAL REGION (No. 1)																						
CITY OF SANTA ROSA 1/ (West College Avenue Plant)	10- -67	Monthly Average	5.60												15 2/							
	11- -67	Monthly Average	5.71												24							
	12- -67	Monthly Average	6.38												53							
	1- -68	Monthly Average	7.86									6.9			46							
	2- -68	Monthly Average	9.88												43							
	3- -68	Monthly Average	9.07												32							
	4- -68	Monthly Average	6.68												22							
	5- -68	Monthly Average	5.94									4.8			30							
	6- -68	Monthly Average	5.59												43							
	7- -68	Monthly Average	5.48												63							
	8- -68	Monthly Average	5.63												50							
	9- -68	Monthly Average	5.57									4.3			54							
SAN FRANCISCO BAY REGION (No. 2)																						
EAST BAY MUNICIPAL UTILITY DISTRICT 1/	10- -67	Monthly Average	77.9	2.6		0.02					4.8		52	< 0.1	275	19.6	0.20	2.0				27
	11- -67	Monthly Average	74.8	2.5		< 0.01					4.8		38	< 0.1	211	17.3		1.0				45
	12- -67	Monthly Average	76.4	0.9		0.06					3.3		154	< 0.1	201	13.0	0.28	2.0				21
	1- -68	Monthly Average	88.5	1.5		0.21					5.5		55	< 0.1	175							28
	2- -68	Monthly Average	90.2	0.4		< 0.01					5.6		55	< 0.1	144	13.8	0.12	1.5				30
	3- -68	Monthly Average	92.9	1.0		0.10					2.0		41	< 0.1	167	17.3	0.16	1.4				30
	4- -68	Monthly Average	78.2	0.6		0.2					3.9		69	< 0.1	172	17.7	0.18	1.4				37
	5- -68	Monthly Average	76.9	1.5		< 0.1					5.5		41	< 0.1	152	19.6	0.16	2.0				32
	6- -68	Monthly Average	77.2	0.6		< 0.1					6.2		53	< 0.1	156	20.5	0.18	1.0				30
	7- -68	Monthly Average	80.4	1.0		0.10					6.8		58	< 0.1	199	17.5	0.12					25
	8- -68	Monthly Average	83.5	1.0		0.01					5.3		32	0.0	323							27
	9- -68	Monthly Average	79.7	1.2		< 0.01					3.9		53	< 0.1	228	16.8	0.10	0.80				38
CITY OF LIVERMORE 1/	1- -68	Monthly Average	2.7									0.50	0.80		17	15.6	0.06	7.1	0.8			42
	2- -68	Monthly Average	2.6									0.41	0.74		14.7	7.5	0.09	7.6	2.49			45
	3- -68	Monthly Average	2.4		< 0.01 3/	< 0.003 3/		< 0.03 3/				0.53	0.33		10.5	<0.01	< 0.01	14.7	2.9			45
	4- -68	Monthly Average	2.4									0.44	0.34		9.0	28.5	< 0.01	8.0	3.54			45
	5- -68	Monthly Average	2.6									0.40	0.44		17.7	1.0	< 0.01	13.8	0.7			42
	6- -68	Monthly Average	2.6									0.40	0.25		14.8	<0.01	< 0.01	15.1	1.2			79
	7- -68	Monthly Average	2.8									0.44	0.10		15.7	0.48	< 0.01	16.5				32
	8- -68	Monthly Average	2.6									0.45			0.9	0.54	< 0.01	14.0				42
	9- -68	Monthly Average	2.7		< 0.01 4/	< 0.005 4/		< 0.03 4/				0.36	0.60		< 0.1	0.33	< 0.01	21.0	2.10			49
MENLO PARK SANITARY DISTRICT	10-30-67	18-Hour Composite	3.35									5.0						0.2		33		26
CITY OF MILLBRAE	10-27-67	6-Hour Composite										5.5						0.3		47		39
CITY OF MOUNTAIN VIEW	10-31-67	24-Hour Composite	5.72									5.3						0.4		57		33
CITY OF PALO ALTO	10-27-67	24-Hour Composite										3.3						0.3		28		20

1/ All analyses reported by discharger.
2/ Pond effluent, samples filtered for removal of algae.
3/ Six-month preserved composite, October 1967 through March 1968.
4/ Six-month preserved composite, April 1968 through September 1968.

TABLE F-3

ANALYSES OF WASTE WATER

PART 3

Source	Date / Time P.S.T.	Type of sample	Flow in mgd	Suspended solids in mg/l	Volatile suspended solids in mg/l	Settleable solids in ml/l	Remarks
NORTH COASTAL REGION (No. 1)							
CITY OF SANTA ROSA 1/ (West College Avenue Plant)	10- -67	Monthly Average	5.60	68 2/	52 2/		
	11- -67	Monthly Average	5.71	44	42		
	12- -67	Monthly Average	6.38	52	50		
	1- -68	Monthly Average	7.86	60	51		
	2- -68	Monthly Average	9.88	55	44		
	3- -68	Monthly Average	9.07	53	43		
	4- -68	Monthly Average	6.68	60	56		
	5- -68	Monthly Average	5.94	63	54		
	6- -68	Monthly Average	5.59	55	48		
	7- -68	Monthly Average	5.48	36	37		
	8- -68	Monthly Average	5.63	46	36		
	9- -68	Monthly Average	5.57	39	39		
SAN FRANCISCO BAY REGION (No. 2)							
EAST BAY MUNICIPAL UTILITY DISTRICT 1/	10- -67	Monthly Average	77.9	150 3/		0.2 3/	
	11- -67	Monthly Average	74.8	142		0.2	
	12- -67	Monthly Average	76.4	181		0.8	
	1- -68	Monthly Average	88.5	179		0.5	
	2- -68	Monthly Average	90.2	138		0.2	
	3- -68	Monthly Average	92.9	158		0.4	
	4- -68	Monthly Average	78.2	117		0.2	
	5- -68	Monthly Average	76.9	122		0.5	
	6- -68	Monthly Average	77.2	119		0.5	
	7- -68	Monthly Average	80.4	119		0.2	
	8- -68	Monthly Average	83.5	115		0.4	
	9- -68	Monthly Average	79.7	99		0.3	
CITY OF LIVERMORE 1/	1- -68	Monthly Average	2.7	7	6	< 0.1	
	2- -68	Monthly Average	2.6	8.6	8.2	< 0.1	
	3- -68	Monthly Average	2.4	10.2	4.0	< 0.1	
	4- -68	Monthly Average	2.4	13	8	< 0.1	
	5- -68	Monthly Average	2.6	12.3	10.8	< 0.1	
	6- -68	Monthly Average	2.6	8	7	< 0.1	
	7- -68	Monthly Average	2.8	5.8	3.8	< 0.1	
	8- -68	Monthly Average	2.6	9.5	7.1	< 0.1	
	9- -68	Monthly Average	2.7	7	5.3	< 0.1	

1/ All analyses reported by discharger.

2/ Pond effluent, samples filtered for removal of algae.

3/ Contains digested sludge.

FIGURE F-1

LOCATION OF WASTE DISCHARGERS
CENTRAL COASTAL AREA

Figure F-1 - Sheet 3 of 6 - Southern Portion of North Coastal Region (No. 1)

Number	Discharger
1	City of Cloverdale
2	City of Cotati
3.	City of Healdsburg
4	Mendocino State Hospital
5	City of Rohnert Park
6	City of Santa Rosa, Laguna Plant
7	City of Santa Rosa, Oakmont Plant
8	City of Santa Rosa, West College Avenue Plant
9	City of Sebastopol
10	City of Ukiah

Figure F-1 - Sheet 4 of 6 - San Francisco Bay Region (No. 2)

Number	Discharger
11	City of Benicia
12	City of Burlingame
13	C & H Sugar Refinery
14	Central Contra Costa Sanitary District
15	Contra Costa Sanitary District No. 3
16	Contra Costa Sanitary District No. 7A
17	City of Concord
18	Crockett-Valona Sanitary District
19	East Bay Municipal Utility District
20	Estero Municipal Improvement District
21	Fairfield-Suisun Sanitary District
22	City of Hayward
23	Las Gallinas Valley Sanitary District
24	City of Livermore
25	City of Los Altos
26	Marin County Sanitary District No. 1
27	Marin County Sanitary District No. 5
28	Marin County Sanitary District No. 6, Ignacio
29	Marin County Sanitary District No. 6, Novato
30	City of Martinez
31	Menlo Park Sanitary District
32	City of Mill Valley
33	City of Millbrae
34	Milpitas Sanitary District
35	City of Mountain View
36	Mountain View Sanitary District
37	Napa Sanitation District
38	North San Mateo County Sanitation District
39	Oro Loma Sanitary District
40	City of Pacifica, Sharp Park Plant
41	City of Pacifica, Linda Mar Plant
42	City of Palo Alto
43	City of Petaluma
44	City of Pinole
45	City of Pleasanton
46	City of Redwood City
47	Richardson Bay Sanitary District
48	City of Richmond
49	Rodeo Sanitary District
50	Cities of San Carlos-Belmont
51	San Francisco International Airport
52	City and County of San Francisco, McQueen Plant
53	City and County of San Francisco, North Point Plant
54	City and County of San Francisco, Richmond-Sunset Plant
55	City and County of San Francisco, Southeast Plant
56	City of San Jose
57	City of San Leandro, Domestic and Industrial

FIGURE F-1 (Continued)

Figure F-1 - Sheet 4 of 6 - San Francisco Bay Region (No. 2) (Continued)

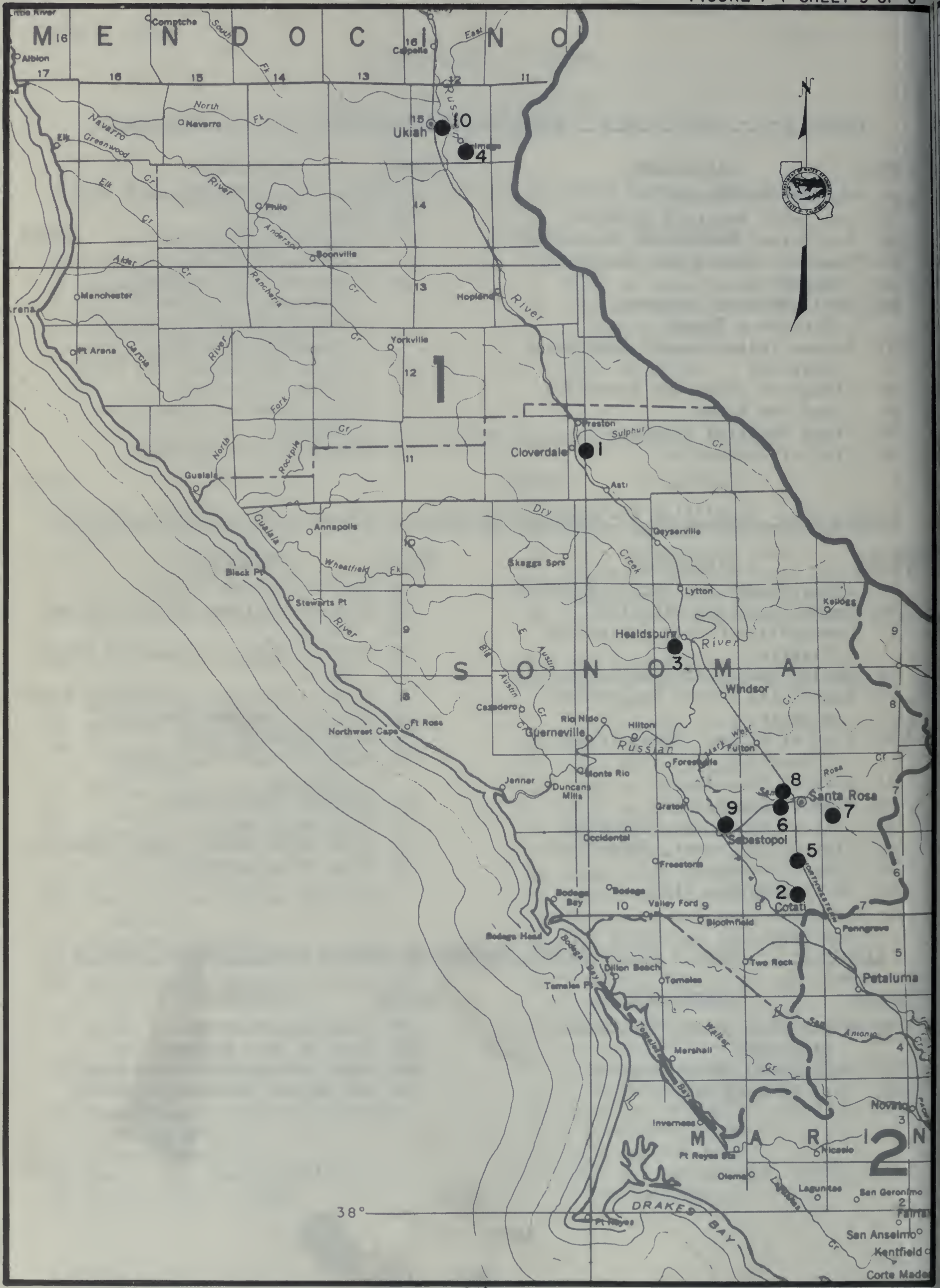
umber	Discharger	Number	Discharger
58	City of San Mateo	67	Travis Air Force Base
59	San Pablo Sanitary District	68	Treasure Island
60	San Rafael Sanitation District	69	Union Sanitary District, Newark Plant No. 1
61	Sausalito-Marin City Sanitary District	70	Union Sanitary District, Irvington Plant No. 2
62	Shell Chemical Company, Pittsburg Plant	71	Union Sanitary District, Alvarado Plant No. 3
63	Sonoma Valley County Sanitation District	72	Vallejo Sanitation and Flood Control District
64	Cities of South San Francisco and San Bruno	73	Valley Community Services District
65	Stege Sanitary District	74	Yountville Vetrans Home
66	City of Sunnyvale		

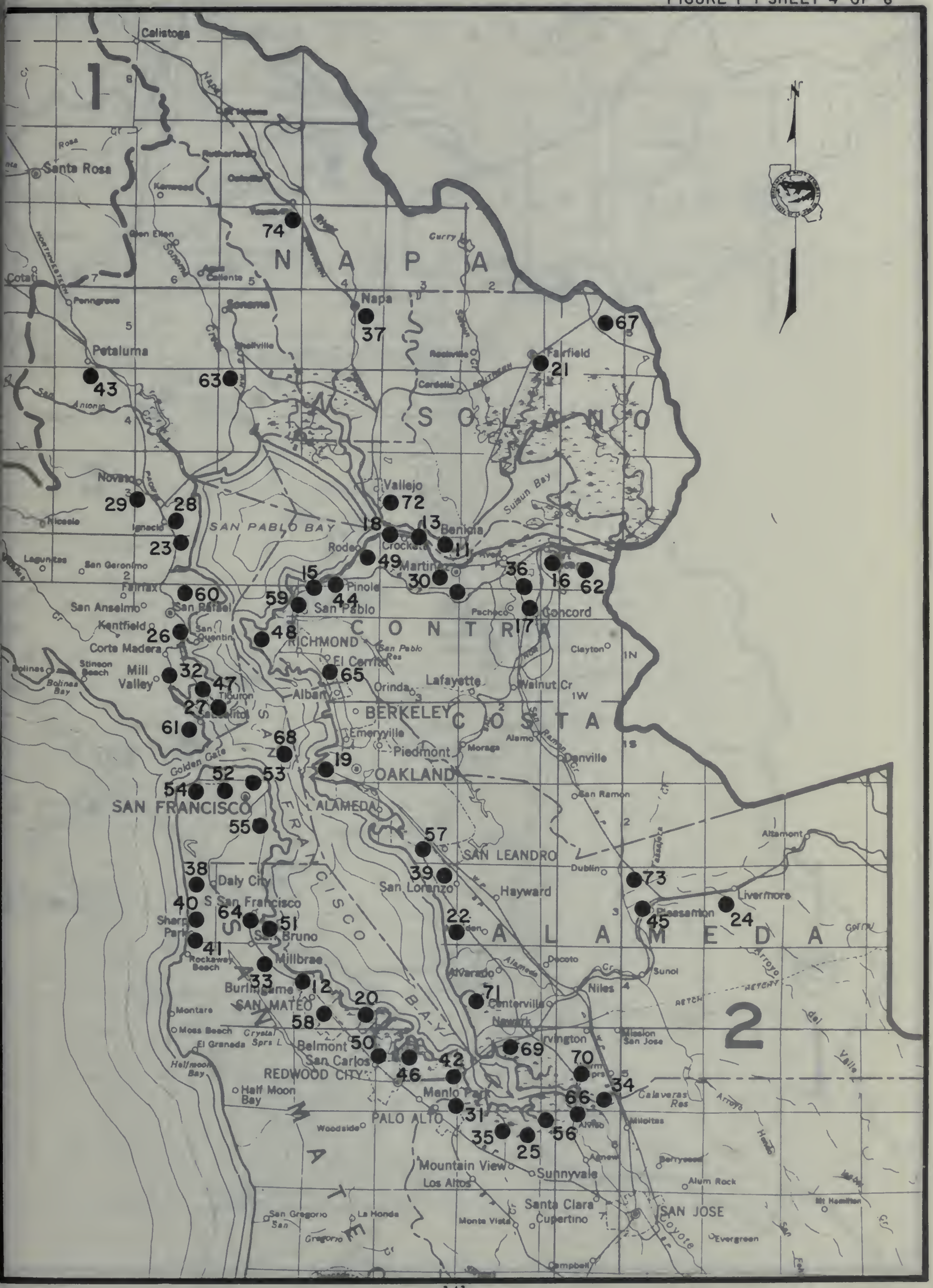
Figure F-1 - Sheet 5 of 6 - Northern Portion of Central Coastal Region (No. 3)

Number	Discharger	Number	Discharger
75	Aptos County Sanitation District	87	City of Pacific Grove
76	Carmel Sanitary District	88	City of Salinas, Domestic Plant No. 1
77	Castroville County Sanitation District	89	City of Salinas, Domestic Plant No. 2
78	Chular County Sanitation District	90	City of Salinas, Industrial Plant
79	East Cliff County Sanitation District	91	City of San Juan Bautista
80	City of Gilroy, Domestic and Industrial	92	City of Santa Cruz
81	City of Gonzales	93	Seaside County Sanitation District
82	City of Greenfield	94	Soledad State Prison
83	City of Hollister, Domestic	95	City of Soledad
84	City of Hollister, Industrial	96	Tres Pinos County Water District
85	City of Monterey	97	City of Watsonville
86	City of Morgan Hill		

Figure F-1 - Sheet 6 of 6 - Middle Portion of Central Coastal Region (No. 3)

Number	Discharger	Number	Discharger
98	Atascadero County Sanitation District	101	King City Airport
99	Atascadero State Hospital	102	City of Paso Robles
100	City of King City	103	Paso Robles School for Boys
		104	San Miguel Sanitary District


MENDOCINO
SONOMA
MARIN
Comptche
Albion
Elk
Greenwood
Navarro
North Fk
Navarro
Elk Cr
Philo
Anderson
Boonville
Alder Cr
Manchester
Pt Arena
Garcia River
Rancheria Cr
Yorkville
Hopland
Ukiah
Calpella
Talmage
Redwood Valley
Preston
Sulphur Cr
Cloverdale
Asti
Dry Creek
Geyserville
Lytton
Kellogg
Healdsburg
Windsor
Russian River
Forestville
Fulton
Guerneville
Rio Nido
Hilton
Casadero
Ft Ross
Northwest Cape
Jenner
Duncans Mills
Monte Rio
Graton
Occidental
Sebastopol
Santa Rosa
Freestone
Bodega
Bodega Bay
Bodega Head
Valley Ford
Cotati
Bloomfield
Penngrove
Petaluma
Two Rock
Dillon Beach
Tomales
Tomales Pt
Tomales Bay
Walker Cr
Marshall
Inverness
Pt Reyes Sta
Olema
Lagunitas
San Geronimo
Nicasio
Novato
San Anselmo
Kentfield
Corte Madera
Gualala
Annapolis
Wheatfield Fk
Black Pt
Stewarts Pt
Gualala River
Rockpile Cr
North Fk
DRAKES BAY
38°
N
1
2
3
4
5
6
7
8
9
10


Calistoga
Santa Rosa
Rohnert Park
Kenwood
Glen Ellen
Cotati
Penngrove
Petaluma
Sonoma
Boyes Hot Springs
Agua Caliente
Glen Ellen
Napa
Yountville
Rutherford
St Helena
Curry Ln
Rossville
Cordelia
Fairfield
Suisun Bay
Vallejo
Benicia
Novato
Nicasio
Ignacio
Lagunitas
San Geronimo
Fairfax
San Anselmo
San Rafael
Kentfield
Corte Madera
San Quentin
Mill Valley
Stinson Beach
Bolinas
Bolinas Bay
Tiburon
Belvedere
Golden Gate
SAN FRANCISCO
Daly City
S San Francisco
Sharp Park
Rockaway Beach
San Bruno
Millbrae
Burlingame
Montara
Moss Beach
El Granada
Half Moon Bay
Crystal Spgs L
Belmont
San Carlos
REDWOOD CITY
Menlo Park
PALO ALTO
Woodside
Mountain View
Los Altos
Sunnyvale
Santa Clara
Cupertino
San Gregorio
La Honda
Monte Vista
Campbell
SAN JOSE
Evergreen
Alum Rock
Milpitas
Berryessa
Alviso
Calaveras Res
Arroyo Hondo
Arroyo del Valle
Mt Hamilton
Sunol
Niles
Centerville
Newark
Irvington
Mission San Jose
Alvarado
Decoto
Hayward
San Lorenzo
San Leandro
Dublin
San Ramon
Danville
Alamo
Morago
Walnut Cr
Lafayette
Orinda
Albany
Piedmont
Emeryville
OAKLAND
BERKELEY
Richmond
El Cerrito
San Pablo Res
Pacheco
Concord
Clayton
Martinez
Rodeo
Crockett
Tidewater
Livermore
Pleasanton
Altamont
Arroyo Mocho
Arroyo del Valle
Arroyo Hondo
Arroyo Las Positas
Arroyo Valle
Alameda Cr
Corral Hollow Cr
Grant Line Rd
Kirker Pass Rd
Ranch Dr
Ygnacio Valley Rd
Treat Blvd
Geary Rd
Ygnacio Valley Rd
Pinole
Hercules
Tidewater
Rodeo
Crockett
Martinez
Benicia
Fairfield
Vallejo
Napa
Yountville
Rutherford
St Helena
Calistoga
Rossville
Cordelia
Suisun Bay
SAN PABLO BAY
Petaluma
Novato
Sonoma
Boyes Hot Springs
Agua Caliente
Glen Ellen
Cotati
Penngrove
Santa Rosa
Kenwood
Oakmont
Rohnert Park
Curry Ln
NAPA
SOLANO
CONTRA COSTA
ALAMEDA
SAN MATEO
SAN FRANCISCO
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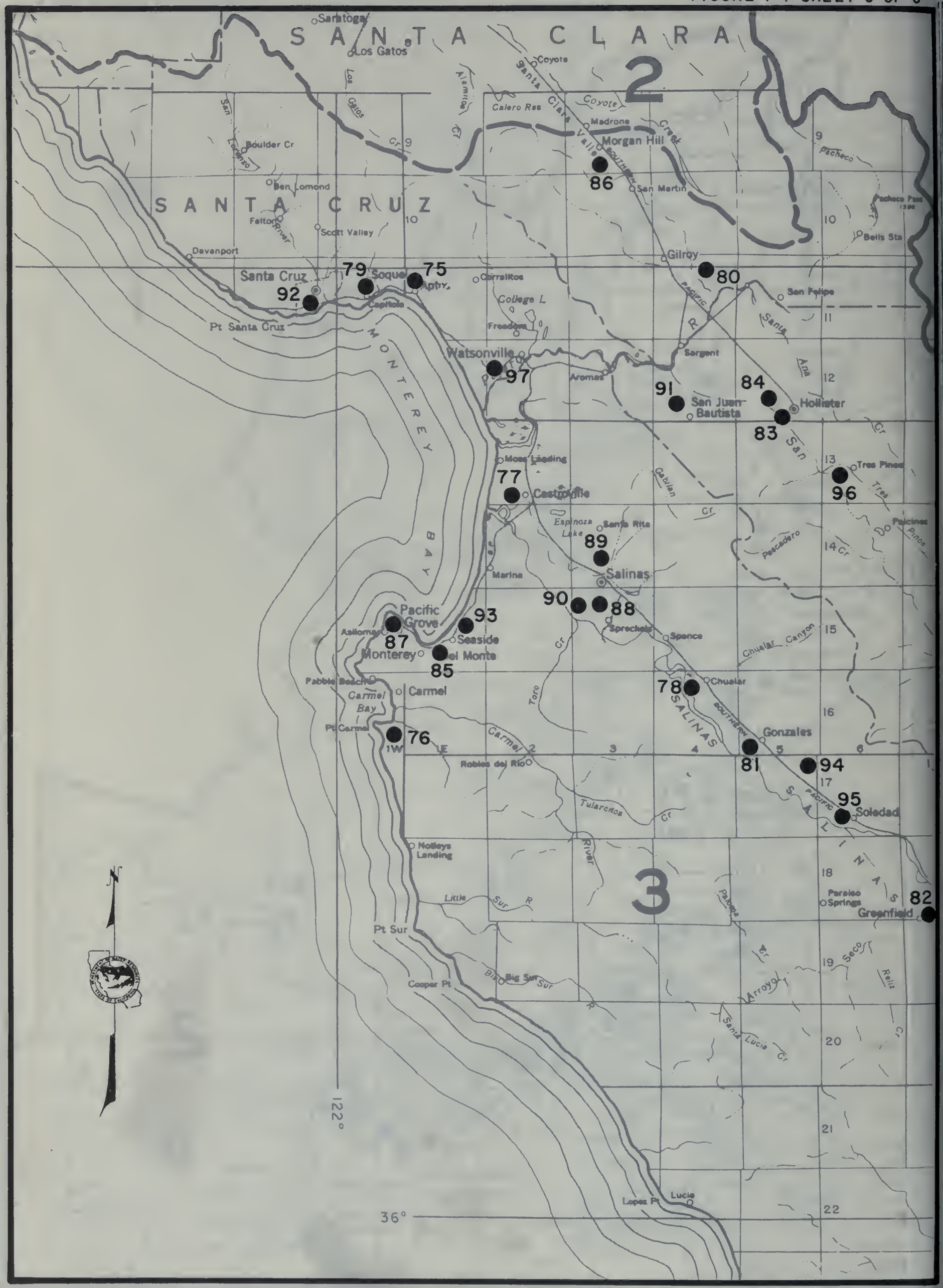
Sonoma
Marin
Contra Costa
Alameda
San Mateo
Santa Clara
San Francisco


SANTA CLARA
SANTA CRUZ
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Saratoga
Los Gatos
Coyote
Calero Res
Madrone
Morgan Hill
San Martin
Boulder Cr
San Lorenzo
Los Gatos Cr
Alamitos Cr
Santa Clara Valley Southern
Coyote Creek
Pacheco
Pacheco Pass
Bells Sta
San Lorenzo
Felton
Scott Valley
Davenport
Santa Cruz
Soquel
Capitola
Corralitos
College L
Freedom
Pt Santa Cruz
Monterey Bay
Watsonville
Aromas
Gilroy
San Felipe
Pacific R
Sargent
Santa Ana
San Juan Bautista
Hollister
Moss Landing
Castroville
Gabilan Cr
Tres Pinos
Espinoza Lake
Santa Rita
Salinas
Marina
Pescadero
Pacific Grove
Asilomar
Seaside
Monterey
del Monte
Pebble Beach
Carmel
Carmel Bay
Pt Carmel
Sprecklels
Spence
Chualar Canyon
Chualar
Toro Cr
Carmel R
Robles del Rio
Gonzales
Tularcitos Cr
Soledad
Nattleys Landing
Little Sur R
Pt Sur
Cooper Pt
Big Sur
Big Sur R
Arroyo Seco
Reliz Cr
Santa Lucia Cr
Paraiso Springs
Greenfield
Lopez Pt
Lucie
122°
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SAN BENITO
SAN LUIS OBISPO
San Benito
Hernandez
Lonoak
Coburn
King City
San Lucas
Priest Valley
Lewis Cr
Lorenzo Creek
Rings Cr
San Ardo
Pancho
Bitterwater Cr
Jolon
Lockwood
Antonio River
Bradley
Southern
Vineyard Canyon
Canyon Creek
San Miguel
Hog Cr
Pine Cr
Cholame
Partlield
Estrella
Salinas River
Las Tables Cr
Paso Robles
Dry Cr
Shandon
Templeton
Huerhuero
Indian Gommetti
San Juan
Creston
Atascadero
Santa Rosa Cr
Harmony
Pt Estero
Cayucos
Morro Bay
Estero Bay
Morro Bay
Morro Cr
Santa Margarita
La Panza
Salinas Res
Paso
San Luis Obispo
Pt Buchon
Avila
Grande Cr
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